REPEATER JOURNAL

AUGUST 1987

2.50

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Also this issue. . .

- Updated 7-State Repeater Index
- Southeast Calendar of Events
- The Editor Celebrates 10-Years

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ON THE COVER

Carol, AA4KP takes time out from her tower work to answer someone on her Handheld. Carol and her husband, Dave, are proud of their 150-foot system. Carol also "bicycle mobiles" around Kents Store with her permanent 2-wheel mobile system. Cover color photos by: Bud, KB4JNI.

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REPEATER JOURNAL

CVRA-SouthEastern Repeater Association, Inc.

August, Sept., Oct., 1987
Volume 16, No. 3
ORGANIZED IN 1971
"In Our 16th Year"

Editorial Comment

Let's Put FM Back In Contests!

It wasn't many years ago when contest weekend rolled around, you could tune across simplex FM frequencies on 2-meters and 220 mhz and hear lots of "contesters". Today, it's almost non-existent.

I listened carefully over the "June QSO Party" weekend, hoping to work a few contacts with my new beams. There just weren't many there to work. All the contesters have shifted to SSB on 2-meters.

This has done two things: (1) It has eliminated 99% of the people who might have worked the contest, but now can't. (2) Only contesters are working contesters, thereby greatly reducing potential scores.

I remember one year, I manned 2-meter FM most of the weekend. We worked over 300 contacts on this mode. Add another 30 or more 220 contacts (great for those days) to a good SSB score and we had a whopping score.

But for some reason, contesters have virtually given up on FM. I don't know who left first, the contesters, or the average FMers who simply was there to give out contest points.

Years ago, the average 2-meter operator with 10-watts, a vertical or small beam could AND WOULD get on and work 20 or 25 contacts, or whatever he felt like doing. He had a good time playing the contest, and the serious contesters had all these "little" signals to add to their scores -- sort of a "Free" bonus.

Today, the "little" signals are gone. I for one would like to see them back. Perhaps ARRL should do some serious looking into why the FMers left. Can rules changes bring them back? Would heavy promotion, urging the "little signals" to return bring them back?

There is definitely fun to be had in contesting. The 2-meter simplex frequencies are numerous enough that the contesters certainly won't encroach and tie up frequencies non-contesters need, not to mention hundreds of repeaters sitting around, just waiting to be used.

Let's get on FM the next ARRL contest. Work each other, and pass contacts to the contesters. We can all have some fun. Pass the word around, get on FM for contesting. Even the staunch conservatives will get excited when they find out they can work someone 100 miles away on FM simplex. In September for the "VHF QSO Party" let's have a party like we had years ago on 2-meters. Turn your FM radios to simples (any other than 146.52) and work everyone you can hear. Keep score and see how many you can work. See how many you can work out of state. You only need to spend a few hours the whole weekend. You'll enjoy it, I guarantee it!!

— Wayne C. Williams, K4MOB

Ten Years and 40 Issues Later!

I must say it has been interesting!

I sat and mulled for several weeks trying to find just how to write this editorial, one that would commorate commemorate my 10 years as Editor of the Repeater Journal, one of the finest regional magazines in the Nation.

We have presented a special section this issue, trying to tell you what it is like to put out this magazine. We have also gone back over highlights of the past 17 years and presented them to you on paper.

As I read back over the Highlights story, I was kind of amazed -- the Repeater Journal has presented a representative history of Amateur Radio, in general, and more importantly, the history of many clubs, repeaters, hamfests, dealers, and much more over the past 17 years.

I wonder how many Amateurs have been mentioned, how many hamfests have been written about, how many repeaters have been covered. The numbers would be staggering to anyone who could take the time to count them.

Continued On Page 47

REPEATER JOURNAL

AUGUST, SEPT., OCT., 1987

In This Issue

Editorials: Let's Put FM Back In Contests & Ten Years Later 1
Putting Together A Repeater Journal-Special Section 3
Murphy TO Manteo + 10 Years 7
Carol Climbs, Rides & DXes Her Way-Cover Story 9
Love Them 88's (An encore by Mike, KC4AO) 11
West Virginia Notes 18
Tennessee Tidbits 19
Repeater Index (by frequency) 20-23
SERA Official Repeater Director (by City, by State) 23-30
Highlights of the Repeater Journal (16 Years of History) 31
Associate Membership Application 39
VECs Revise Written Tests Every 3 Years 42
CW is Fun 43
LPM Held in May-A Report! 44
Looking Back! The August 1977 Journal 46
Away From The Pole Position 51
Full Membership Report 51

Where To Find It Quick!

Repeater Journal Staff 1
Officers & Committees 2
District Directors ..... Bk. Cover
Stubbie 19
Financial Report 42
Advertisers Index 52

About Associate Membership

Repeater users and Amateurs are invited to join CVRA-SERA as Associate Members. A membership fee of $6.00 per year will enable members to support the organization and receive the "Repeater Journal". Associate Membership deadlines are on the 15th of the month preceding months of publication – Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Winston-Salem Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive next to be published Journal, but instead will receive the forthcoming issue the following quarter. HOT-P Associate Memberships are limited to one year duration at $10.50 per year. HOT-P, your Journal is mailed on Friday FIRST CLASS mail. Regular memberships are mailed on MONDAY, Third Class Bulk. CVRA-SERA does not issue receipts for Membership applications. Members should wait until next Journal comes out to report any problems to the Associate Membership Chairman, P.O. Box 24292, Winston-Salem, N.C. 27114-4291. Associate Members may hold appointive positions within CVRA-SERA.

About Full Repeater Membership. . .

Officers and Directors are elected from repeater representatives who are Full Members. Any repeater owner or club may join CVRA-SERA as a Full Member if they have an operable repeater on the air. Full Membership application, coordination information (if not on file) and $15.00 should be submitted for the annual Full Membership fee. Two Full Members receive the Journal from each application. The Full Member repeater is also appropriately recognized as a CVRA-SERA supporter in the repeater index. Full Memberships all expire on December 31 of each calender year.

About the Repeater Journal. . .

The CVRA-SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of CVRASoutheastern Repeater Association, a seven state repeater coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations upon written request. DEADLINES: Ad space reservations are the 20th of the month, and ad copy due the 1st of the next month. ONE MONTH prior to publication. News deadlines are the first of the month prior to publication month. The REPEATER JOURNAL is entered as Third Class Mail at the Post Office in Greensboro, N.C. Cover price for the REPEATER JOURNAL is $2.50. All news and Newletter exchanges should be mailed to the editor: Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

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About CVRA-SERA. . .

The CVRA-Southeastern Repeater Association is one of the largest Non-Profit repeater councils in the U.S. In our 16th year of operation, CVRA-SERA territory covers over 1,000 repeaters in member States of NC, SC, VA, WVA, TN, EKY, and GA. Our goal and promise is to continue providing a pleasant operating condition in the VHF/UHF spectrum of Amateur Radio

What's Involved In The Job?

Putting Together A Repeater Journal

— by Wayne C. Williams, K4MOB
Editor & Publisher

A REPEATER JOURNAL SPECIAL SECTION

After ten years at the task, David, Sharon and I have things down pretty pat as to how we're going to handle putting together a Repeater Journal. Our schedules for each element of the Journal as we go along are well established. We have assigned a certain amount of time for each portion of the book, to prevent getting bogged down.

In The Beginning

Things start moving about 6 weeks before the Repeater Journal is to hit the mailboxes. On the 20th of the Month of the second preceding month, Sharon and I get started on our "Advertising Manifest", a sheet listing all advertisers that will be advertising in the forthcoming Journal, what size their ad will be, whether any typesetting or camera work will be required and if color is required.

This early Manifest gives us an idea of how many ads we are going to have in our Journal that issue, which partially determines the number of pages.

Meanwhile, David brings along a double-spaced printout, repeater listings of the seven state area, from the computer.

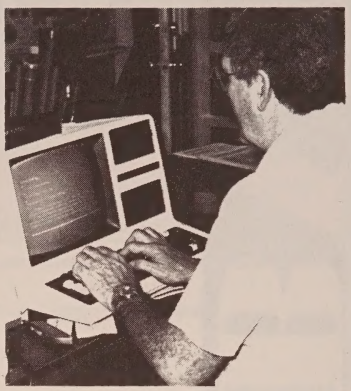
We set up schedules and deadlines for each component of the Journal, establish a print date, and a mail date the Journal will be put in the Post Office.

Early Preparations

From the 20th to the first of the next month, I get out the old pasteups from the previous Journal, go through them and take out ads, parts, standing heads, and other things we might need for a new Journal. Old copy and pages are then thrown away. Our rough copy file, containing all the typewritten copy, parts, etc. from the last issue are also gone through and mostly discarded. THe old repeater indexes are torn down, leaving only the State names and the lines on the pasteup, ready for the new index to be inserted later.

Sharon goes through the hamfest calendar and checks to see if all Hamfest advertising we expected has come in. She has previously written each of them a note reminding them of deadlines if they want to advertise in that issue of the Journal. If any are missing or have "forgotten" she makes one last call to them to be sure they do not plan to advertise, or if they slipped up in time, that copy is coming, either way, she gets confirmation prior to the first of the month. Every show which will be held prior to the next issue 3 months way is generally contacted.

PLANNING the advertising layout for a new Journal, Wayne and Sharon work closely together in the early stages.



WAYNE working at his computer word processor writing stories for the next Journal.

On The First We Go!

On the first of the month prior to Publishing a Journal, David, Sharon and myself meet again and nail down all the loose ends. Sharon provides a completed "Advertising Manifest" containing all the ads that will appear in the forthcoming Journal. We find out which ads are to be in color. By then we also have the "National" ads which run Full Color on the inside covers. Sharon and I double check and see that every ad on the manifest is accounted for.

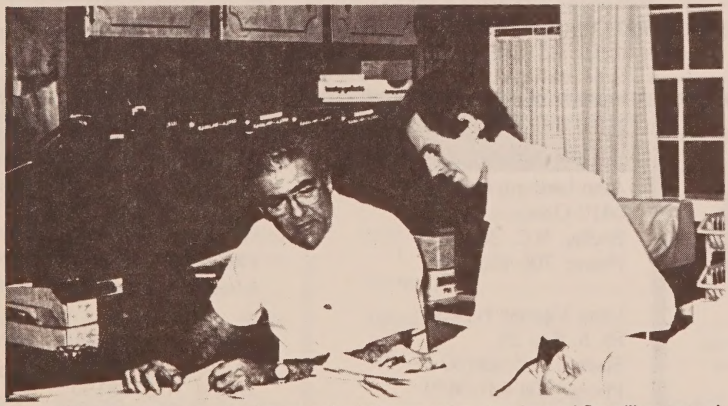
David, meanwhile, is putting finishing touches on his "Looking Back" column, turning over all Full Membership applications which have come in since the last delivery. I also give him Associate Membership applications I have picked up over the past weeks.

The next week is critical for me. Most all of the copy, news and advertising, must be turned over to the typesetter the first week so we will get it back in time to put the book together.

My first chores in getting this portion of the book ready is to go through and get copy that needs typesetting for all the ads. I go through the Journal and get standing heads, dates, page numbers and items like that typed out and marked up for the typesetter.

By the first of the month, copy from our correspondents starts rolling in. I read over their stories, write heads, mark them up as to typesetting sizes,

Continued on Page 13



DAVID & WAYNE work out particulars on scheduling an upcoming Journal. Deadlines are set and carefully met throughout the Month for various portions of the book. The size of the Journal, and how many copies must be printed are discussed, and how much advertising is available for the upcoming issue. Full Memberships are also double checked by the two.

W4NYR SARC CLUB SHELBY AMATEUR RADIO CLUB

HAMFEST

SHELBY

Sponsoring The Largest And Best Hamfest In The South!

SHELBY N C

Labor Day Weekend. . .

The Shelby ARC Proudly Presents

The 30th Annual ARRL Sanctioned

1987 SHELBY HAMFEST

SEPTEMBER 5 & 6 - SAT. & SUN.

Cleveland County Fairgrounds

(U.S. 74E Business at N.C. 180)

$4.00 for PRE-REGISTRATION (Use form), $5.00 at the gate. All tickets good for both days. Children under 12 FREE. Send S.A.S.E. for Pre-Registration tickets.

Preregistration ticket requests received after August 21 will be held at front gate.

30th ANNIVERSARY MEDAL FOR SALE

A limited Edition Medal will be sold during the Hamfest commemorating the Shelby Hamfest's 30th year. They will be numbered from 1 to 500.

.999 silver - one troy ounce. (approx. size of a silver dollar)

LIMIT: 2 per person
$20.00 ea.

For General Hamfest Info.

John Ledford, N4GOQ
3410 Oakcrest Drive
Shelby, N.C. 28150
Phone: 704-482-4507

Larry Vassey, N4IJB
Rt. 5, Box 24
Shelby, N.C. 28150
Phone: 704-487-0470

For Dealer Registration:

Barbara Elliott, N4MRZ, Chmn.
P.O. Box 191
Fallston, N.C. 28042
Phone: 704-538-7919
(after 1:00 p.m.)

Pharis Greene, KB4AF
717 Mayo St.
Shelby, N.C. 28150
Phone: 704-482-5204

MANY, MANY VALUABLE PRICES TO BE GIVEN AWAY!

Pre-Registration: ICOM IC-2AT H/T With BC-35 Charger
Saturday Prize: Kenwood TM-2550A 2-Meter Transceiver
Sunday Prize: 1st Prize: ICOM IC-751A HF with Ext. P.S.
Second Prize: ICOM IC-735 HF Transceiver
Third Prize: KENWOOD TM-2550A 2-Meter Transceiver

Drawing will be held both days at 2:00 p.m. Need not be present to win any of the major prizes.

No Member of the Shelby ARC or Immediate Family is Eligible to win any prizes.

FACILITIES:
Indoor buildings for all new equipment dealers. Over 15 acres for all types of tailgating. Plenty of FREE parking outside grounds.

FOOD:
There will be food service on the grounds including Shelby's famous Bar-B-Que and other fine foods. Most of Shelby's restaurants are within a few minutes drive of the Hamfest site.

REGISTRATION:
$4.00 for pre-registration (see enclosed form) and $5.00 at the gate. All tickets good for both days. Children under 12 FREE. Pre-registration ticket requests received after August 21 will be held at front gate.

OVER-NITE CAMPING:
Facilities include over 40 sites with full hook-ups, water, sewer and electricity. Sites available on first-come basis and **none will be reserved under any circumstances.** Unlimited field space for self-contained units.

$7.50 per day for full hook-ups (lights, water & sewer)
$5.00 per day for water & lights
$3.00 per day for tents, etc.

FLEA MARKET:
Charges: one admission ticket for a 10 foot space, plus one additional ticket for each additional 10 feet of space used. Gates open at 6:00 a.m., Saturday and Sunday.

All vehicles entering Flea Market area will have to pay an additional $3.00 charge if you are not a Flea Market vender. (This does not affect Commercial Dealers and campers).

ACTIVITIES:
Bingo for all ladies on Sunday morning following Sunday School. Sunday School to be held Sunday morning on hamfest grounds at 10:00 a.m.

Major Prizes obtained with the Cooperation of:
ICOM AMERICA, INC., TRIO KENWOOD
and DOC's Communitcations

HAMFEST TALK-IN 146.28-88

FREE PARKING

Across Road from Entrance on Paved Lighted Lot. Handicapped & Tailgaters use Gate near Intersection of Hwy. 74 Business and Hwy. 180.

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Nearby Motels:

SHELBY (704)
Holiday Inn - 482-6721
Governor's Inn - 482-3821
Freedom's Lodge - 484-2101
Shelby Motel - 482-1012
Town House - 484-8539

KING'S MOUNTAIN
Holiday Inn

GASTONIA, Mid-Town, Howard Johnson, Holiday Inn, Scottish Inn

GAFFNEY - Holiday Inn

FOREST CITY - Gardo's, Big Horn, Goode's

LINCOLNTON - Town & Country

HICKORY - Howard Johnson, Holiday Inn, Mull's, Ramada Inn

Preregistration ticket requests received after August 21 will be held at front gate.

The Shelby Hamfest

W4NYR
SARC LUB
SHELBY AMATEUR RADIO CLUB

ARRL

Pre-Registration Form

I would like to Pre-Register for the SHELBY HAMFEST.
Enclosed is my check for:

_____ Hamfest Tickets @ $4.00 each ..... $_____

Total ..... $_____

UNDER 12 FREE

NAME_____ CALL_____

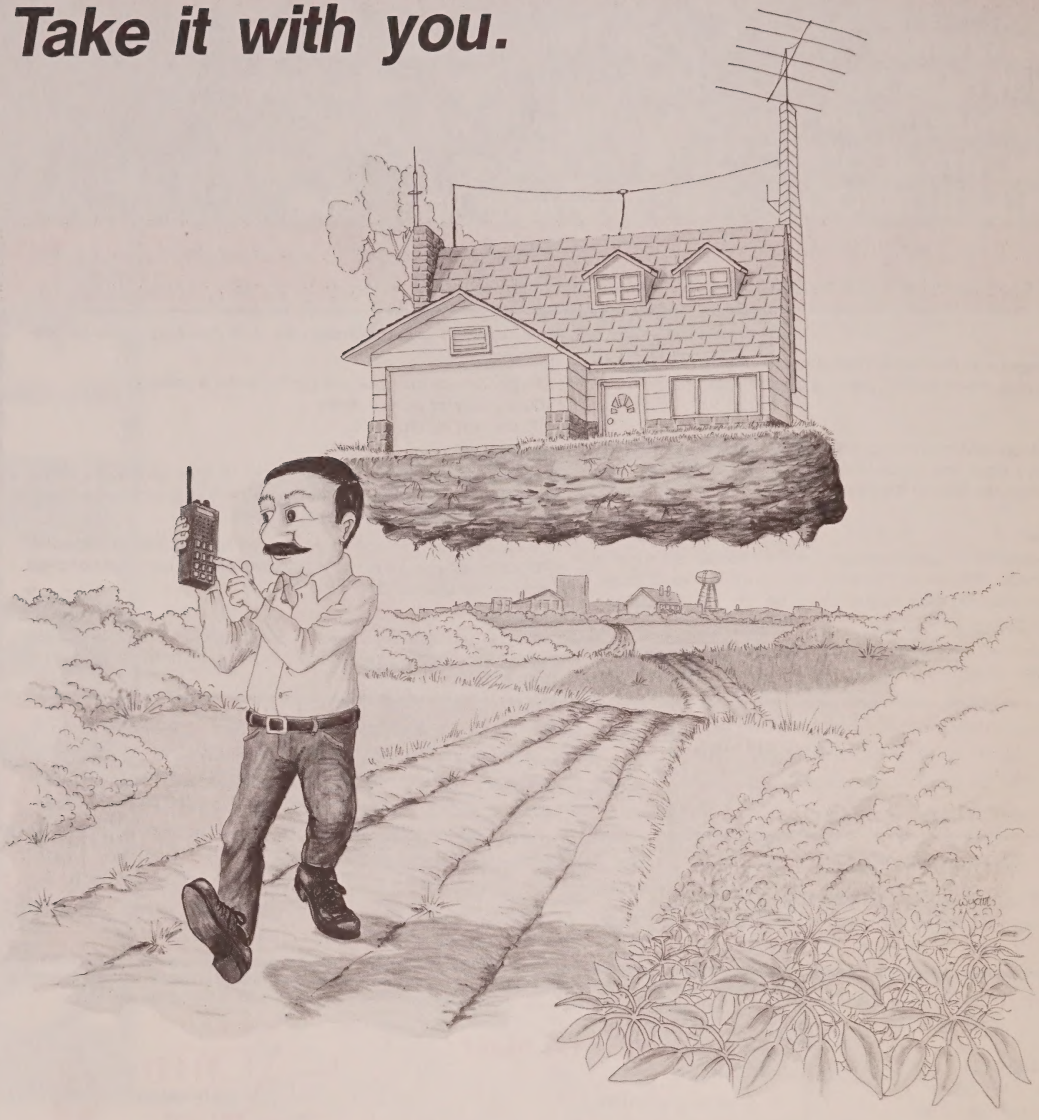
ADDRESS_____

CITY _____ STATE_____ ZIP _____

MAIL TO: REGISTRATION, SHELBY AMATEUR RADIO CLUB
P.O. BOX 2206, SHELBY, N.C. 28151-2206

RJ-8

Take it with you.



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Scan the bands, change modes, select antennas, turn gear on and off – all from your Touch-Tone keypad. Check into nets, work skeds, ragchew and DX without being tied down to the shack.

Exchange electronic mailbox messages with your family – like "I'll be late", or "All is OK". Or talk with your family directly through *ShackPatch*™, with you in remote control of your home station. Report traffic accidents or disabled motorists through your home phone while mobile or portable with *PersonalPatch*™.

All the power of your home station (and more) really can follow you anywhere . . . to find out more about ShackMaster™ just write, send us your QSL, or call and talk with us at 408-727-3330.

acc advanced computer controls, inc.

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The NC, 2 Meter, Repeater Test

Murphy-To-Manteo-To-Murphy + 10 Years

— by Herb Lacy, N4UE

Many of you licensed Amateurs have become so in the last ten years. In these days of burgeoning technology, we all tend to forget our roots -- all the stages of development in the radio art from the beginning pre-license days (1912) with spark transmitters, etc. This article talks about an event in our history involving FM and repeaters. Today, that event would hardly be noticed; in 1977, it was one of the early, unaided steps in the progression toward FM/repeater adulthood.

Having been Section Emergency Coordinator for NC (seeing Amateur Radio as a public service force), a challenge was recognized as being ripe for the plucking.

Here is what a number of us saw in mid-1977. Discussions among NC Amateurs on the Tar-Heel Emergency Net (3923 kHz), on the Emergency Coordinators Net and at various hamfests and gatherings was the realization that repeaters were an untapped potential of strength for Amateur Radio. You must adopt the 1977 context for that perception. There were far fewer repeaters then. None were on tall (2,000') towers; few were on mountains. Two meter rigs were crystal-controlled. All were crystalled for their "home" repeater and '52 (and maybe '94). A few rigs were crystalled for adjacent repeaters. Almost no rigs were synthesized. Synthesizers were being built by several leading-edge gurus. Still, most of us were "rock bound." Today's grand, do-everything, rigs were just wild fantasies of the few who had active imaginations. Still, repeaters seemed to be - from a public service point of view - a sleeping giant, ready to be awakened.

During the spring and summer of 1977, a large number of NC Amateurs began formulating a scenario to test this challenge. We asked: what if someone originated a piece of formal traffic at one end of North Carolina and began to relay it via local and adjacent repeaters, could it be successfully relayed via these repeaters to the other end of the State? Good question. Was this a serious test? Was it premature? One thing we did know: the cost of the test would be nothing. So, why not try?

We recognized that for the test, persons would have to monitor their local and adjacent repeaters during the test. We saw that the test would have to be coordinated State-wide. Clearly, that was a good use for our HF emergency frequency of 3923 kHz. We also had two stalwart traffic people, Bill Williams, W4PCN, in Manteo and Jim Foust, K4AIH, in Murphy (both now Silent Keys). I was asked to write a letter requesting their participation as well as the formal declaration of the plans.

Copies were sent to George Hart, W1NJM, Mgr. of the Communications Dept., ARRL; Phil Wicker, W4ACY, Roanoke Division Director, ARRL; Bill Parris, K4GHR (now AA4R), Section Communications Mgr. NC, ARRL; Bill Finch, W4EHF, Section Emergency Coordinator NC, ARRL; P.L. Burt, W4OFO, Tar-Heel Emergency Net Secretary (now a Silent Key); Ed Alderman, WA4PEN, President, CVRA.

As October 18, loomed closer, more Amateurs became aware of and got caught up in the enthusiasm of the test. In the summer, it was thought (by me - I picked the date) that Tuesday, October 18, would be a nice, sleepy, quiet, weekday evening with nothing else to do. Boy, was I wrong; read on.

Well, October 18, rolled around. The Tar-Heel Emergency Net began at 7:30. I don't remember the check-in count, but it was a near-record total. Some checked in from Virginia and South Carolina because the word had spread. The Net had little format traffic. The rules and intent of the test were rehearsed several times for even the late-comers to fully understand them. BINGO! It was 8:30 pm. (AT LAST!)

A few minutes after 8:30, both Jim and Bill checked in to say that each had relayed a piece of traffic via a repeater. Jim, in Murphy, was a regular check-in on THEN. Bill, in Manteo, was not. Bill never had a microphone on his HF rigs. All of his considerable HF traffic work was on CW. So, he QNI'ed on CW. No problem. Every couple of minutes, someone else would jump in and announce that a piece of traffic had cleared a repeater. Excitement was mounting. Somehow, the Murphy to Manteo traffic fell into the hands of Wayne Williams, K4MOB, in Colfax. He promptly relayed it to Herman Cone, WB4DBB, in Durham -- ON 220 MHz! This was supposed to be a NC 2-meter test. Oh well, in reality, if we are handling emergency traffic, it doesn't matter the specific frequency or even the mode (CW, SSB, FM, Packet, etc.). Getting it there quickly AND letter perfect is the point. By the way, WB4DBB was so shamed by his indiscretion that he moved out of NC. I hear that K4MOB is lurking around in the shadows somewhere plagued by his guilty conscience. Anyway, the Murphy to Manteo traffic progressed through the "system" in smooth fashion. We had no idea of what to expect as far as routing or elapsed time. To this day, I don't know the exact paths the traffic found. However, this is for sure, the west to east took 34 minutes! We are astounded. I, along with others, had speculated the test running to early in the AM, or even all night. There were cheers and celebrating (doubling and tripling) on 3923 kHz. As I recall, Bill, W4PCN, "read" the text of the message on 3923 kHz on CW and got a confirmation from Jim, K4AIH.

BUT. Where was the Manteo to Murphy traffic? We did know it had dipped into Eastern Virginia. There went the NC part of the test - following the 2-meter part. Oh well, the test still could succeed.

The east-to-west traffic seemed to fall into a hole. The last thing heard on 3923 kHz was a comment from someone in Greenville that "it was coming into Raleigh." That was an overstepping of the rules. Comments were to be only of where it had been; not where it was going. This was to prevent any assistance from 3923 kHz. However, as we were able to reconstruct, a new Amateur in Greenville had received the traffic and then heard on 3923 kHz that "it was coming to Raleigh." He was startled by that to the point of sitting on the piece of traffic thinking that someone else had it. When, after almost an hour of comments and queries as to its where-abouts, he realized that he was holding it. Finally, he sent the traffic on its way. It reached Murphy in one hour and 35 minutes! We don't know how much of that time it spent in Greenville.

The main point is this: the test gave us all a tremendous boost in our appreciation of the resource we collectively had in "our repeater system." We began, I think, at that time, to take repeaters as a serious part of our kit of tools used to serve the public. It gave us the experience of planning and working together toward a common goal. I don't want to live in the past, but this is a piece of history of which all NC Amateurs have a right to be proud.

I suppose that any stretch of one's capabilities may fail. However, trying and failing is far better than not trying at all. When you are successful meeting a challenge, the personal satisfaction is gigantic. The personal-satisfaction quotient was off the scale that night.

Just off the top of my head I can think of another challenge. That is in the area of Packet Radio. How long would it take to pass a piece of traffic via Packet Radio from Caribou, ME, to Key West, FL?; or from coast-to-coast?; or through each of the 48 contiguous state's capitols?; or. . . . .

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Carol, AA4KP Climbs, Rides and DXes Her Way!

Cover Story

— by Wayne C. Williams, K4MOB

I first met Carol Metzger under very unusual circumstances at the Richmond, Va. Frostfest in January of 1984. Someone told me that they were going to have a wedding on the stage -- right there at the hamfest.

Unbelieving, but having a nose for news, I sought out this very attractive lady in white, standing with her soon-to-be-husband. I instantly liked Carol and Dave, WG4T. We chatted a few moments, until they had to excuse themselves to go up on the stage where the wedding was to take place.

Carol and Dave were married right there at the hamfest, by an Amateur Pastor, of course.

We wrote up a small item about this unique wedding in the February 1984 Repeater Journal.

Carol and I have kept in touch over the past couple of years and talk regularly on 2-meter simplex.

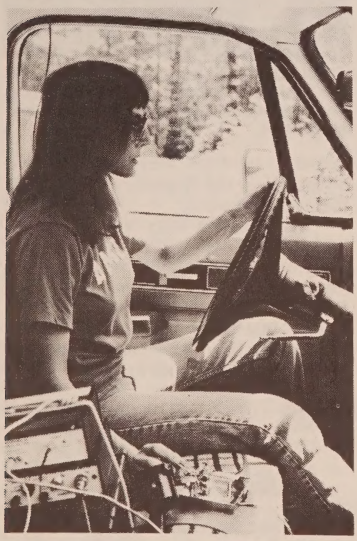
— Photos for this story ctsy: "Bud" Beazell of Keswick, Va.

A 25 to 40 mile trip is no problem for Carol, AA4KP. She has 2-meters to keep her company. She often rides and talks for hours with her friends on her numerous bicycle trips.

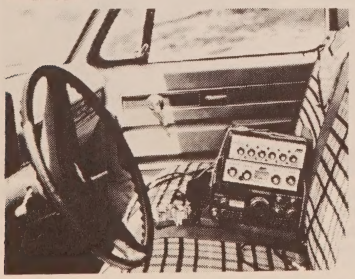
Carol, met Dave on 40-meter CW and a romance developed. After a while, the wedding, then she moved to Kents Store, Va., just outside of Charlottesville.

The couple began to build their ham station. Carol, since she had done some tree climbing earlier in life, volunteered to do the tower climbing and assembly. This suited Dave and with his strong back, he was able to pull up the tower sections, for Carol to mount them. Finally they got their 150-foot Rohn 25G tower assembled, and a nice arrayof antennas on top. Carol continues to do the climbing and antenna work when necessary.

Continued on Page 10



Above: Carol Metzger works CW on 40 and 80 meters using a paddle while driving along in her pickup truck. Below: a view of her HF rig, tuner, keyer and paddle in the truck seat.



Area Newsletters Win In ARNS Contest

Five area Club Newsletters were rated "winners" in the annual Amateur Radio News Service (ARNS) Publications Contest. The contest is held for various Amateur Radio Club Bulletins, Newsletters or Magazines, from across the Nation.

"HAMNEWS", newsletter for the Bluegrass ARS of Lexington, Ky, won the Superior award in the "Catagory C" (101-199 members). The Editor is R. William DeVore, N4DIT.

"RARS EXCITER" of the Raleigh (NC) ARS also won the Superior rating in the Category C classification. Editor for RARS is Ann M. Bradley, WA4APK.

There were two winners in the Category D (51-100 members). "HAM CHATTER", Newsletter for the Brightleaf ARC of Greenville, NC, L. Neal Sumrell, KB4FKF, editor, won "Good".

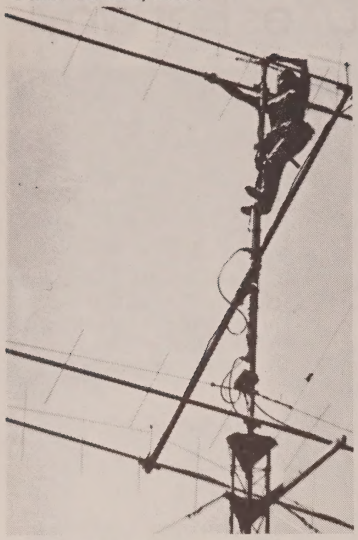
An "Excellent" classification was awarded to the "RADIATION" of the Chattanooga ARC of Chattanooga, Tn., Charlie Ann Curle, WG4G, editor.

Worthy of mentioning also, the TSARC BNT, magazine for the Triple States ARC received an "Excellent" classification in Catagory A (750 & above members). Ralph A. McDonough, Editor. The club newsletter is reportedly mailed to every state in the U.S. to members. The main area includes Ohio, West Virginia and Pennsylvania.

According to the ARNS Contest results, out of 79 entries nationwide, we had 9 to enter their newsletters from SERA territory. Of those, 5 were winners.

Club Newsletter editors interested in learning more about the Amateur Radio News Service, may write the Secretary, Fran Norrick, WB9WPS, 823 North 59th St., Waco, Tx. 76710. Annual dues for membership is $6.00 ($5.00 annual dues, and $1.00 first year only). Members receive the ARNS BULLETIN containing helpful hints on producing a newsletter, stories and fillers from other newsletter editors, and much more interesting information of much value to Newsletter editors.

Carol Climbs, DXes



An antenna problem is no problem for Carol, AA4KP. She merely scoots up her 150-foot tower, shimmys up the beam mast pipes to the 165-foot peak, and makes the adjustments herself.

Continued From Page 9

Being the versatile lady that she is, Carol assembled a neat Handheld, with amplifier and permanent antenna on her 10-speed bicycle so she can talk with friends while she does her exercise riding. Some of her bike "rides" wind up being 25 to 40 miles at any one time.

Once while on a trip to Fredericksburg with her bicycle mobile to visit a ham friend, Frank Brooks, whom she had talked with often, but never met, she was noticed by a newspaper photographer. She wound up getting almost a half page write-up in the Fredericksburg Free Lance-Star newspaper. She also received a nice page write-up in the July 1985 QST "YL News and Views" column.

Carol also has a nifty Pickup truck mobile, which includes HF rig, tuner, keyer, paddle and antenna resonators for 40 & 80 meters. Carol said shifting gears on the truck presented a small problem when she was transmitting CW with the paddle, but she like all of us, has worked it out with minimal problems.

Carol's base station equipment includes a 2-meter all-mode rig with amplifier and an HF transceiver.

Her antenna system includes 2 fifteen element beams for 2-meter SSB and 2 sixteen element beams for FM. Her 80/40 meter trap diple comes off the top of the tower making a neat "sloper". She also has a full wave Delta Loop for 160 meters, with the apex at 150 feet.

Carol and Dave also have a smaller tower which sports a tribander for HF.

Carol said she enjoys all facets of Amateur Radio which she is presently involved in. She is an avid QSL collector, and some of her pride and joys include some she has worked on 2-meter SSB and FM.

Incidentally, Carol has a scrapbook and has collected all of the "Stubby" cartoons by Fred Hurteau we have published in the Repeater Journal over the past few years.

Carol, AA4KP will be glad to show you all her "Stubby" cartoons she has collected from the Repeater Journal and placed in a scrapbook.

Carol turned forty a "few" years back, and she said she and Dave are enjoying married life to the fullest, and Amateur Radio "the most". Some fellows are proud to get their wife merely interested in Amateur Radio. This young lady is not only interested, but she is "doing it all her way".

Tennessee Group Plans To Oust SERA

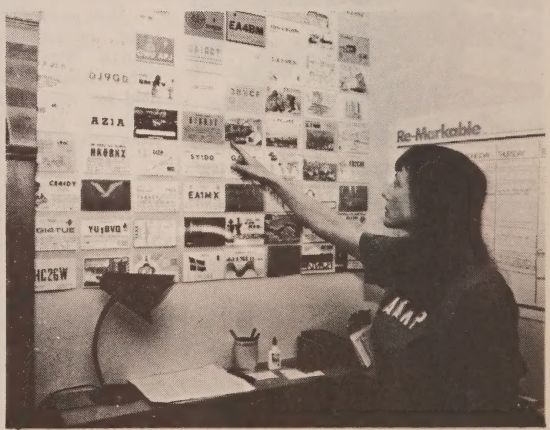
The Repeater Journal received late word just before presstime, that a group in the Kingsport, Tennessee area plan to set up their own Repeater Coordination Council, due to "uncooperativeness of SERA."

A package of letters to the Journal Editor from George Shelton, N4OPX of Kingsport stated, "The radio clubs of this area have pledged their support for K4LSP repeater, and have agreed that if the CVRA does not re-coordinate the K4LSP repeater. . . the amateurs of this area will establish a new regional frequency coordinator for East Tennessee, Southwest Virginia, Southeast Kentucky and Southern West Virginia. "This approach would allow," the letter continued, "the amateurs of this area to have a say in frequency coordination affairs and thus eliminate he uncooperative CVRA."

The group also accused CVRA being politically run from North Carolina. The K4LSP repeater mentioned in the letter has been involved in a off and on conflict with the Mt. Pisgah repeater since early 1973. SERA had been working diligently with

Continued on Page 34

A neat hamshack for a neat lady. AA4KP works HF, mostly CW, as well as 2-meter SSB and FM. from her operating position at Kents Store, Va. She boasts of one of the strongest 2-meter signals coming out of Northern Virginia and works into North Carolina FM quite often.



QSL cards line the side wall of Carol's hamshack. She has many VHF contacts confirmed she is proud of, including some from New Jersey, North Carolina, Pennsylvania, and Virginia. Her beams up 165-feet and a little power make her heard well on the VHF band.

Novice Enhancement Is Working For Us!

Many people have wondered if the new Novice Privileges are doing what they were designed to do. From all indications from the FCC, repeater owners and SERA, YES it IS working.

Since the May Repeater Index, our Directors have coordinated 21 new 220 mhz repeaters. This is an all time record for a 3 month period. The May Journal listed 82 repeaters on 220 Mhz. in the seven SERA states. Now we have 103! A 20% increase in 3 months.

A Greensboro, N.C. 220 repeater owner said his 220 repeater is busy all the time, with dozens of novices happily checking in and talking. He said some of the "old timers" had blown the dust off their 220 rigs and begun to become active again, too. We have several other reports of heavy increased usage on 220 repeaters.

Numbers with the FCC also show new records being set. A total of 10,314 applications for Novice have been processed by the FCC for the 60 day period ending May 31. This compares to 3,418 and 4,893 in the same periods of 1985 and 1986 respectively.

A scan across 10 meters will tell you a story too. Novices are on, and they are enjoying!

The FCC established "Novice Enhancement" in late March of 1987. The new rules allow Novices to operate other than CW from 28.3 to 28.5 Mhz. on 10-meters; 222.1 to 223.91 Mhz on VHF (which includes repeater inputs for transmitting, and of course monitoring capability on outputs); and 1270-1295 Mhz. UHF.

Now that limited equipment is available, our Directors are coordinating repeaters on the 1270 band. A new one is being built in Atlanta, Ga. We also hear some activity on 1270 in Virginia and North Carolina.

Perhaps clubs who own 1 or more 2 meter repeaters should consider a 220 or 1270 machine. After all, if you plan to solicite Novice membership in your club, you should have the facilities to allow them to talk to other club members.

There is a huge growing number of untapped resources in the Novice ranks, growing by leaps and bounds. They will all be looking for clubs to join, Field Days to operate, and Public Service to perform. Is your club looking at the Novice as they should?

Love Them 88's

— by Mike Williams, KC4AO

(Editor's Note: Mike published this article in the Repeater Journal about 8 years ago. People talked about it for 3 or 4 years. In our 10th Anniversary edition, we thought it might bear repeating for your newcomers.)

K4&&& QRZ on sixteen-seventy six... QRZ QRZ QRZ the Repeater, QRZ QRZ QRZ QRZ from K4&&&, anybody copy this station QRZ QRZ QRZ QRZ.

K4&&& this is WA"%%%, how copy. WA4%%% this here's K4&& and-a & copy arm-chair here, how you copy WA4%%% this am K4&&&.

Fine, Phred. Full quieting, as always.

WA4%%% this is K4&&&. . . . just got up my stacked 88 element beam. How do they sound.

Your signals full quieting. Phred, you're only six miles from the repeater.

WA4%%% this am K4&&& fine on everything old man. How's my new antenna sound, got 88 elements up one hundred feet. WA4%%%, this is K4&&&. . . . . over!

Okay, Phred. Beautiful signal into the repeater. . . . . go ahead.

WA4%%% this is K4&&&. Can you tell any difference in my signal compared to last night. I got up 88 elements now, you know. WA4%%% this here am K4&&&. . . . . over!

The repeater always pins my "S" meter, Phred. You going to try to work some DX on simplex? K4&&& from WA4%%%.

WA%%%. . . this is K4&&&. Naw... I never work simplex much. . . . maybe 94 once in a while. Not many people on 94 direct though. Some radicals tried to talk me into getting 52 crystals, but nothing doing. I've been working ninetyfour direct for 8 years and I'm not about to change frequencies just because some repeater twenty miles away planted himself on thirty-four/ninety-four. Besides I was on 94 first. If anybody is going to move, it'll have to be those kids on 34/94. I was using 94 when those kids were still in college getting their smarts. WA4%%%, heah's ole K4&&& and-a &. . . . .

Yeah, Phred, by the way, I'm having a little trouble understanding you!

WHAT?. . . ooops. . . WA4%%% this is K4&&&. . . almost forgot. . . Having trouble reading me? Wait. . . yeh. . . let me turn the 88's. The side is on the repeater. . . . no wonder (click, click, click, click) How's that. . . . WA4%%% this is K4. . &. . &. . &. . go haid. You're still a little fuzzy, Phred, but don't worry about it. . . . . .

WA4%%%, K4&&& DON'T WORRY? Maybe it's my new antenna. Maybe I shudda put it up a little higher. I coulda gone up another couple of feet above the rotator. Maybe that's what I shudda done. WA4%%% from K4&&&.

Don't worry about it Phred, it just sounds like your deviation might be a little high. You might check with someone else. My ears aren't all that accurate, Phred. . . . . DEVIATION CONTROL?

Yeah, you know... the little pot that controls your frequency swing.

Oh yeah. . . I keep it cranked wide open. I wanna get all the punch I can from this little rig. . . oh. . . by the way, did I identify? WA4%%% this is K4&&&.

Yes, Phred, several times.

WA4%%%, this is K4&&&. . . . well 73's old man. Enjoyed the chat. Hope you have a nice day tomorrow. . . . . and a nice night tomorrow night. . . . . and a nice weekend this weekend, and a nice Thanksgiving and a nice Christmas. . . . if I don't talk to you again before then. 73's again, and again I really enjoyed it, and don't work too hard and take it easy. We'll see you on down the old log. . . . . 73's and good luck and good DX. So until next time, this is K4&&& signing with WA4%%% after a short, but very enjoyable QSO. 73's old buddy!

Good night, Phred, K4&&& this is WA4%%% clear.

. . . . . QRZ QRZ QRZ QRZ on sixteen seventy six, QRZ QRZ QRZ QRZ, this here's K4&& and-a & looking for a signal report on my new antennas.. QRZ QRZ QRZ QRZ the repeater, QRZ QRZ QRZ QRZ!

New WNZ Award

CQ Magazine has a new WNZ Award, a special DX award for Novices and Techs. The handsome hand-lettered parchment certificate will attest to the achievement of making and confirming two-way communications, using the Novice bands and privileges with at least 25 of the 40 CQ zones.

The new award, "Worked Novice Zones" will be available only to U.S. Novices and Technicians in mixed mode, CW only or SSB.

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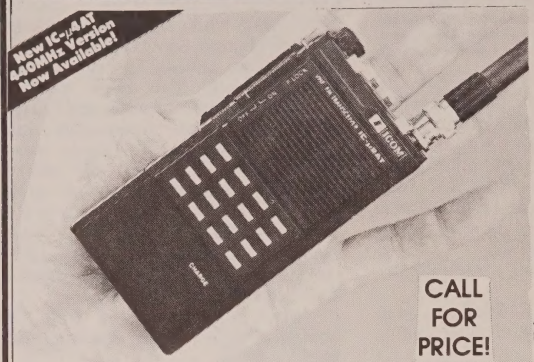

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panel for easy readability, up to three watts of output (optional), 32 built-in subaudible tones AND wideband receive coverage from 138 to 162.995MHz in 5kHz steps for MARS/CAP operation and weather broadcasts. There's also a simple to use digital **TouchStep Tuning System** for fast shirt-pocket frequency adjustments. An IC-μ2A version is also available without DTMF and PL tones.

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- **21 Memory Channels**

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45 Watts. The IC-28H provides a full 45 watts of powerful output. The **IC-28A** 25-watt version is also available. Both units have a selectable low power.

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Putting Together A Journal

Continued From Page 3

headline sizes, and get them ready for the printer.

By the 2nd or 3rd of the month, I generally have a pretty good stack of stories and advertising copy for Gerry to take to the typesetter so she can get going.

We call this the "first batch" of typesetting. It contains all the standing items, advertising, and pre-written stories that have come in thus far.

Any photographs which have come in, are taken to the camera at where I work, and we shoot them to proper size, and "screen" them so they will reproduce in a printed book. We then write "cutlines" for each picture, sized to the proper column width.

By now, additional stories have come in, which are edited and placed in the "typesetting to go" box. Meanwhile, I have gone through dozens of small pieces of paper I have gathered over the past months. (Confirmed hamfest dates, VE Exams, repeater changes, etc.) These are all compiled in groups, and added to master lists on our computer, to be held for final updating at the last possible moment.

Stories are written from notes I have gathered. All the current FCC actions, ARRL news and local actions are looked over and if warranted, stories are written.

At the present time, we are using our computer, word processing the stories about 50% of the time, and the rest is still done on a typewriter

By the 6th or 7th of the month, we have our "2nd batch" of copy ready for the typesetter. When my wife Gerry takes this over, she picks up the "1st batch" of typesetting. The printer has typeset all the stories we have thus far submitted on long strips of photographic paper, and placed a "tacky" type wax on the back of the strips. When we are ready to start initial pasteup of the Journal, we trim out the copy eliminated any excessive paper, leaving only paper containing type.

We have "layout sheets" which are thick pieces of paper, page-sized, with light blue lines printed on them. The lines assist us in getting the type laid down straight. Columns are displayed with vertical lines, allowing me to get proper spacing between columns and knowing where to start a column at the top of the page, and where to end it at the bottom.

We place small ads across the bottom of various layout sheets, attempting to prevent more than one ad per page. When all the ads have found a place, we count the layout sheets and get one for each page we plan in the Journal.

We set aside only about a day to get the "1st batch" of typesetting laid down on the page and the completing of ads

COPYING extra copies of Full Membership applications are done for the computer, and for the Directors.

which we had copy set, mainly because we still have more preliminary work to do on the Journal.

By the 10th of the month, we generally have about all the stories we plan to submit for typesetting for the upcoming Journal. There still will remain a group of items needing typesetting, but they are final items such as the "Contents" and "Advertiser's Index" and cannot be worked out until the book is virtually complete.

The Repeater Index

By the 10th or 12th, it is time to get the completed repeater index corrections to David. Corrections or field changes for the computerized index are marked on a master double-spaced printout and contain from 300 to 500 changes per issue of the Journal, except the February issue which sometimes runs in excess of 2,000 field changes.

David comes by, picks up the index and takes it to the computer to begin the massive job of inserting the changes from the corrected printout.

(Note: Future plans are to place a "PC" compatible computer with the editor so repeater changes can be sent in directly to the editor via telephone from the various Directors, eliminating the need for hard copy changes to be transferred to a printout, then keyboarded into a computer, a savings of more than 25 man-hours.)

While David is in to pick up the repeater index, he is also given a last-minute up-do-date printout of the Hamfest and Convention Calendar to be printed on our laser printer.

Back to the Pasteups

Heading down the homestretch, we dilligently start pasting up the Journal as the final batches of typesetting are brought in. We are about 10 days from having to give the printer the finished product.

Stories and pictures are pasted on the layout sheets, pages are laid in proper sequence and numbered and everything begins to take shape. When completed, a page is an exact replica of what the finished printed product will look like.

When all pasteups are finished, the "pages" are checked over to see if additional filler copy is needed to fill up "holes" where no copy was available. This generally runs just a couple or three short stories, which we quickly type and have ready to send in.

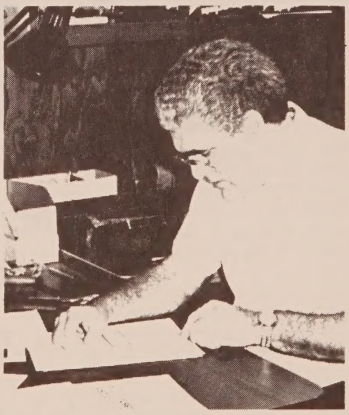
The near-completed pasteups now get their page number, month, year, logo lines across the bottom and are now ready for proofing. The contents and advertisers index is typed up and they along with fillers are sent on to the typesetter.

And Now the Repeater Index

We are now in our final week before the finished product is due at the printers. The day before the indexes are run off on the laser printer, David checks the CVRA-SERA Post Office box for any final items that might effect the printout. I call him and give him the final changes or corrections I have received. These are entered and David begins the task of running off an updated repeater index for the seven states. The printout is run on a heavier than usual paper, allowing me to wax the sheets, trim them out, and paste the index directly onto the layout sheets.

On a Monday or Tuesday of the final week, we get the printouts and begin the job of pasting up the pages. Trimming and pasting of these 10 to 12

Continued on Page 15



PASTEUP of the Journal is done on a table by the Editor. Each page must be pasted up exactly as it will look when printed.

★ NEW EQUIPMENT ★ USED EQUIPMENT ★ COMPUTERS ★ VEC EXAMS ★ PRIZES ★ PERIPHERAL EQUIPMENT ★ GENUINE JUNK ★

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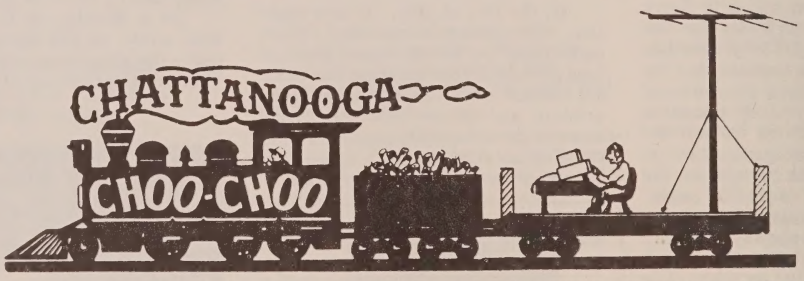

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Continued From Page 13

pages takes the better part of the day. Hopefully David and I have measured correctly and we have enough page space to get the complete index into the Journal. If not, we have to cut the stories to make room. After years of practice, we have it down pretty accurate and only have to adjust less than 1/2 page, generally a fill story to complete the last index page.

On to the Camera

It is now Tuesday afternoon before the printer is due to get the finished product on Thursday. We have our completed Journal pasteups ready to go. We take them to work with us at the newspaper in Winston-Salem and at the end of our shift or whenever time permits over the next two days, we shoot each page pasteup and make a full page negatives. On pages containing color, we shoot separate negatives for the color and the black printers. By

CHECKING COVER, on the Journal. Full color covers are much more complicated and require careful attention to detail to see that everything will print properly.

Wednesday night, we sign a breath of relief. The Journal is now a big box of negatives ready to take to Frank and the folks at Commercial Printing in Kernersville.

Early Thursday morning, we again check carefully, to see that every page, negative and all eight color negatives are right, and see that the four-color process cover negatives are all okay. THen we take the box of negatives to the printer.

Another Journal is finished!

We go back home and start straightening up the hamshack tables, desks and floor, putting away rough copy, cleaning up strips and hundreds of pieces of paper left over from the job. By Thursday night, everything at home is back to normal, for the first time in a month.

Now It's David's Turn

While we are getting ready to relax, David's roughest time of the period begins. He goes into the computer and starts updating final additions and deletions to the Full Membership and Associate Membership roster. Changes are made right up to the last week of the month.

A couple of days before David is due to pick up the Journals, he sorts and starts printing labels on the laser printer. The labels are peel-off, stick-on variety. A label is made for each member of the organization. Other labels are made for each advertiser, and for dozens of "freebies" sent to Congressmen, Senators, FCC personnel, ARRL personnel, other coordination council members, news organizations and others we have on the list.

A separate list of labels is made for the HOT-P membership and Directors and officers. These labels will be used first on Journals the day they are picked up from the printer. These books are mailed First Class. The remainder of the labels will be used for the Journals to be mailed 3rd Class, Bulk postage.

David must sort the labels by State, City, County, Zip Code, Zone and numbers per bundle, and bundles per bag, to conform with Postal regulations.

The carton of finished labels are laid aside, ready when the new Journals come from the printer.

The following Thursday, which is the final Thursday of the month, David and Sharon go by the printers and pick up 40 to 45 cartons of freshly printed Journals. On the spot they open up a carton or two and start affixing labels and stamps for First Class Postage on Journals for the CVRA-SERA Officers and Directors and all members who have the HOT-P membership. These Journals are carried directly to a post office that Thursday afternoon.

The remaining Journals are carried to the designated home which will be the scene of the "party" where about 6 to 8 people spend a part of the weekend affixing labels on the Journals, tying them with huge rubber bands into proper bundles, and placed in appropriately labeled mail bags. By Saturday afternoon, someone's den or basement is stacked with about 80 mailbags full of Journals.

On Monday, which always (or most of the time) falls on the first monday of publication month, David gets the bags to the post office, where they are weighed and the postage bill is paid.

Now David can relax!

Sharon's Turn

When I get my new copy fo the Journal, I go through and mark each ad as to how much additional work we had to do with it, and the amount to be

A FELINE proofreader. "Sam" Diligently watches over the boxes of art and copy laying in readiness for another Journal assembly.

WAYNE busy reading news on the SERA News Net which is broadcast to over 30 repeaters in 6 states every Wednesday evening at 8:30 p.m. Much Journal information is previewed over the net, prior to publishing.

charged. Sharon comes by, gets the marked up copy and takes it home. It's time to print out the bills to the Advertisers. Within the week, Sharon has these all done and in the mail. Her job is through for this issue!

And finally the end!

The Journal staff can now relax for another two months or so, before we have to start things all over again. From very beginning to the end, taking time as necessary, it takes about four weeks to put together a Journal, a week to get it printed, and a weekend to get it in the mail.

We are very fortunate to have so many dedicated people who are willing to take the necessary time to assist in publishing the Journal. They always come through.

I have never sat down and figured out what it would cost if this were a commercial enterprise and everyone

Continued on Page 16

Putting Together A Journal

Continued From Page 15

SHARON WARD is busy working out billing for advertisers in the Journal.

who participated were on the payroll, and we had to pay full price for typesetting, pasteup, camera-work, printing, mailing, etc., but I believe it would exceed $8,000 per issue. We are able to put out a Journal for about $4,000 per issue. Our advertising revenues put approximately 40% of that back into the CVRA-SERA treasury. The low-cost we experience in publishing a magazine such as ours is unparalled in Amateur Radio Publishing. This enables the organization to place before its membership a top-rated magazine we can be proud of yet not drain the treasury in such a way that total membership has to foot the bill. This way, membership fees are kept to a minimum to get by, yet go forward with a magazine an organization the size of CVRA-SERA deserves.

Many thanks to the Directors, Vice-Directors, Officers, and dozens of repeater owners and users who take time to send in their stories and pictures to make the Journal the magazine that it is. The Journal is YOUR magazine, and reflects your status in the Southeast -- members of one of the largest repeater organizations in the Nation.

I cannot heap enough praise on the individuals who so closely work with me on the Journal:

DAVID WARD, KA4LVO, who is my main leg man, running to the post office numerous times, picking up and delivering information to and from the computer, working closely with me throughout the process of getting the Journal out, and keeping one of the most complex computer information systems of membership and repeater listings in the country.

SHARON WARD, David's lovely wife, whose main job is to solicit advertising for the Journal. She writes hamfest chairmen, dealers, distributors, and sends the bills out. Aside from that, she is better than UPS getting information back and forth between David and I during her 30 mile trips from Pfafftown and Greensboro.

GERRY WILLIAMS, KB4SEL, my main driving force, and most avid critic of the Journal. She proofreads, and with her years of printing experience advises on what looks good and what doesn't. She also allows our home to be a wreck and a mess 4 months of the year while Journals are being assembled.

MARY, WC4T, & CLYDE, KF4WY WEDDLE, who just recently joined the Journal team. Their writing ability is known throughout their area of North Carolina. We are fortunate to have them with us, to present a fresh new outlook in the Journal. Their duties of writing will be more evident in future editions of the Journal.

ALTON WARD, KB4EP, and the "party" crew who take their weekends to fill up the den and living room with Journals to affix the labels and bag the books ready for mailing.

FRANK and his staff at COMMERCIAL PRINTING in Kernersville who always work with us, does a good job in printing, and most importantly of all, ALWAYS delivers on time.

All these people make up your Journal staff. Without them, we wouldn't have a Journal.

David Describes What Happens When Journals Are Picked Up From The Printers To Mail!

Getting the Repeater Journal into your hands requires quite an effort on the part of several peeple. In the early days of the CVRA, one person did it all. But as membership topped a thousand, the duties were spread out over several people. During the eight years I have been associated with the organization, we have used several approaches to getting the job done; each approach was dependent on whatever help we could get.

I first remember Lindsay, W4IZI printing the pressure sensitive mailing labels for circulation manager Jim Bartlett, KB4WD to apply to the books. (Prior to 1978, Lindsay did both jobs.) I helped Larry, WB4VJE (now KI4UE) maintain the manual records of the associate membership and get the info passed to Lindsay. As time passed, I took over what Larry did, and Larry took on Jim's job. Lindsay then provided Larry with the labels, and a "party" was held quarterly at his house. As more time passed and more personal situations changed among our volunteer workers, Lindsay passed on the computer records side of the organization to me, where I consolidated and economized on what was being done (more stuff was done on computer and less on 3 x 5 index cards and yellow legal pads). Then Larry's situation changed, and we began peeling and sticking labels and taking them to the post office.

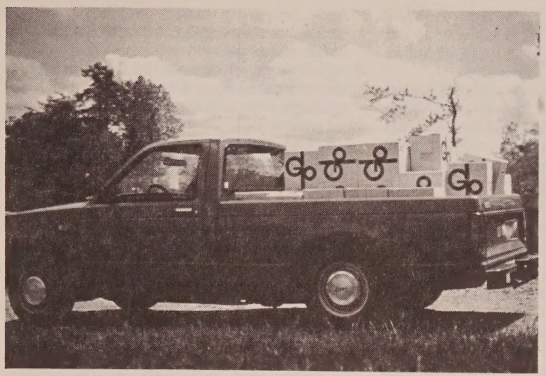
Now before you think I'm bragging, let me explain something. I don't do all of this alone. I attempt to coordinate the activities of a team (whose composition varies from issue to issue) that does the work. The computer work, from programming to processing is primarily done by me, but the rest is carried out by a dedicated group. Surprisingly, most of them ARE NOT amateur radio operators!

In another article this issue, Wayne has described what goes on from the editor's viewpoint to get a Journal out. Here's the story from my side.

About a month after an issue of the Journal goes out, those people whose membership will expire in the

Continued on Page 17

DAVID WARD at his work desk, correcting the repeater index into the computer. A corrected index printed on the laser printer, will be sent to the editor for direct pasteup in the index portion of the Journal. Over 1,000 repeaters, requiring 10 pages in the Journal are involved.



THE PICKUP is loaded to the hilt with over 50 cartons of Repeater Journals, heading for the house and the awaiting crew

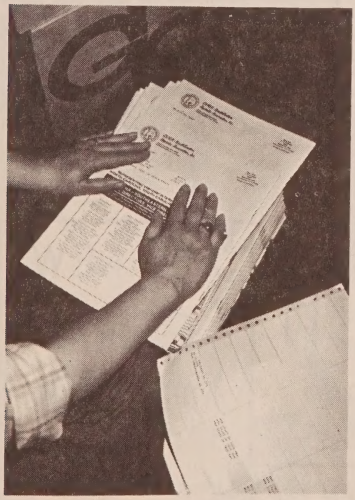
MAIL SACKS are piled high after the "peel & stick" crew finishes getting the Repeater Journals ready for mailing.

next quarter are mailed a renewal notice. These trickle back in over the next 3 months and are processed as received. By the 20th of the month after Journal publication month, I meet with Wayne and we set our deadlines for stages of putting the next Journal together. During the next 20 days, I'm getting repeater changes and some typeset material to Wayne. Then somewhere between the 10th and 15th of the month prior to publication, I enter into the computer repeater changes from Wayne. I have just a couple of days to run the repeater indexes, typeset them, and return them to him.

Two or three days later, Wayne has finished the Journal and it is in the printer's shop. It's now time to begin generating mailing labels.

Labels must be generated for two groups of people. First, all those persons to receive a HOTP (Hot Off The Press) copy have labels printed. Since these copies are sent as first class mail, they do not have to be sorted in any specific order. It's the other 3400 or so that take the time.

BURIED amidst piles of Repeater Journals, our "mailing crew" works hard getting labels on the books and placed in proper mail sacks.



BUSY HANDS smooth a label on a Repeater Journal, in preparation for sending a new issue to some member.

The computer programs used in our system are written in MS-COBOL and run on your common IBM-PC. The program that produces the sorted mailing labels takes about 7 hours from start to finish to produce the labels. During these 7 hours, some 3400 entries are selected from a database of over 8500 people. Three sorts and extractions are done on the file of 3400. When it's all over, 3400 labels will have been sorted into nearly 300 bundles that will go in al least 50 mail sacks.

Seven days after Wayne has given the printer the finished pages, it's "time to party". My wife, Sharon and I pick up the 1500 pounds of printed material and take it to the party site (usually at the apartment of Sharon's grandmother in a retirement center). On the way, we mail the HOTP Journals from a post office. After a bite of supper, the crew shows up to begin peeling and sticking labels.

Since the labels are already sorted into bundles and sacks, it's very easy to take a rookie and turn him/her into a pro in just a few minutes. We normally have from six to eleven people come to the party and give three to five hours each (a total of 30 to 35 person hours), and well, the party's over. Of this group, only three of us are hams. As we are cleaning up from the party, in comes Tom Gallagher, N4IOZ ready to get started. He has just recently begun taking the mail sacks to the post office the next day. In my years of doing and coordinating volunteer work, you immediately take what help you can get. In Tom's case, "you never look a gift Bronco in the grill".

After that remark, this story should end. Coincidentally, it does. After Tom drops off the Journals at the post office, we slow down our pace considerably. We may not do anything (other than opening the mail) for three or four weeks, when the cycle starts all over again.

WEST VIRGINIA NOTES

By Ted Wolfe, WD4KHL

With all the news this spring and summer in newspapers and national news magazines about the great strides being made in superconductor research I began to wonder what this is going to do to Ohm's law. Of course Ohm's law won't change but how often will it be needed when the superconductors exhibit nearly zero resistance? Will someone come up with a new formula which future hams will have to learn in lieu of or in addition to the most basic Ohm's law?

• • • •

Incidentally, the best explanation I've ever seen as to how "pi" gets into the act, so to speak, in so many of our electrical formulas was found in a book published in 1975. It was the "Amateur Radio General Class License Study Guide" (2nd Edition) by Jim Kyle, K5JKX, and Ken Sessions, K6MVH, found around page 43. The book was published by TAB Books, Blue Ridge Summit, Pa 17214. The explanation is a bit long to reproduce here and would probably exceed fair usage allowed by copyright law, so you'll have to go to the source to read it.

• • • •

I understand it is by design that the clubs offering VE examinations in southwestern Virginia have set the exam schedules in such a manner that one is given every month somewhere in the region. That makes it easier for anyone wishing to test or upgrade to plan ahead for when and where to go for the best. For example (from the May Journal) you'll note that for the remainder of the year the examinations are scheduled thusly: August in Bluefield, September in Richlands, October at Clintwood, November back in Bluefield, and December at Richlands again.

In addition, tests are administered twice yearly -- in January and July -- at Grundy, Va.

• • • •

Now that the year MCMLXXXVII is two-thirds gone just consider there are only a dozen years to go before we reach another century mark in our reckoning of time. Those who live to the year two-thousand will enter a new century, the 21st, although you can get an argument on when the new century begins, whether with the year 2000 or 2001.

In the paragraph above I used three ways of setting forth a specific year -- by spelling it out, by use of Roman numerals, and through use of arabic numerals. That recently made me begin thinking about how we'll soon express the year in Roman numerals. If my way of figuring is correct, and it's been a long time since I studied Latin in high school, we can begin simplifying and shortening that long string of Roman characters in just over two years.

Unless there's some convention or protocol that I'm unaware of, by my reckoning we should be writing the year 1990 when it arrives as MXM. Five years further down the road it would be MVM for 1995. And for the year two-thousand it will be simpler still, just MM.

• • • •

The article "An Amateur Radio Bird" in the May issue of the Journal reminded me of the first time I ever encountered a talking mynah bird.

It was years ago, sometime in the 1960's, on an occasion when I dropped by the WCHS radio studios in Charleston to talk with an old friend, Hugh McPherson, who had a nighttime music and talk show on that station.

There were already several guests seated around the control room/studio from which McPherson worked when I walked in. Hugh sat inside the U-shaped control console. To the left of the console there was a large bird cage sitting atop a table on which also sat a microphone.

At first I saw nothing inside the cage but a medium size paper bag or sack. But presently before my eyes a large black mynah bird strode out of the bag inside the cage and clearly enunciated the words, "I'm a cowboy, bang! bang! bang!"

The bird, Joe Mynah, was a feature of Hugh's show. While Hugh talked he never knew when Joe would let go with a loud wolf whistle or one of the number of phrases at his command. But Hugh worked around those phrases with ad-libs.

Before writing this I phoned Hugh to refresh my memory on the phrases Joe voiced. Hugh said the bird had a vocabulary of about 150 words. Among the phrases in the bird's repretory were: "Hugh, play the music"; "What time is it?"; "Want to go rehearsin'" (the show's title was 'Rehearsin' with McPherson'); "Let's go honky tonk;" and "I'll be doggone."

Joe the Mynah died in 1968 at age 12. He had been a staple of McPherson's shows for about ten years and had guested on radio programs in New York, Chicago, Indianapolis and other cities.

• • • •

The July issue of the newsletter of the Jackson County ARC notes that the club will be honoring a "Club Amateur of the Year" at the group's annual hamfest scheduled for Saturday, Aug. 8. This is the club's 10th annual hamfest and Flea Market.

The JCARC publication "Loud 'n Clear" was rated recently by the Amateur Radio News Service. The three judges classed the newsletter as "Excellent." Bob Morris, WA8CTO, is the Editor.

• • • •

After analysis of the May listings I came up with a number of questions for Mac McMillian, WD8OZT, Southern Assistant CVRA/SERA in West Virginia. Many of them he was able to answer when I talked with him June 29, just before submitting this copy. He was, thus, able to clear up some of my questions.

The Putnam ARA had requested a change of listing for its Scott Depot 147.87/27 repeater. Visitors had no idea where that community was in the Kanawha Valley. So, since the machine covers the two areas, they requested a Charleston/Huntington listing. When that was done somehow the other K8SLI/144.81/145.41 repeater operated by PARA at Liberty was dropped. I hope it is restored in this issue, although I understand it's also to be listed differently.

The Huntington WB8EZR 146.04/64 listing is now Huntington-Charleston.

• • • •

Buckhannon has gotten a new 144.81/145.41 repeater, coordinated with non-interference with K8SLI qualification, by N8FHE. Dick Fowler, N8FMD has recoordinated 144.69/145.29 from East of Elkins to Malden Mountain in Kanawha County. By later this summer he plans to link it with his 146.085/685 repeater at Clarksburg.

NU8K is the call which you should now be hearing on the Logan/Blair Mtn. 144.63/145.23 repeater.

K8VNQ has added another, fourth repeater, to that system which already has machines in Bridgeport, Parsons and Grafton. The last three named are linked, but I have no information on the new one at Mt. Storm, WV on 147.705/147.105.

The 146.055/655 pair has been coordinated with liaison with T-Marc (coordinating body for Maryland, five counties in West Virginia, and a number in northern Virginia) for use on Spruce Knob, the highest point in West Virginia, by N8HON.

Mac was unable to advise whether the listing change from Richwood to Summersville for the 146.34/94 also included a physical change of location for the repeater. He referred me to the state CVRA/SERA Director who was unavailable as this was written.

• • • •

Some 25-hundred volunteers, including 20 amateurs, participated in Mid-June to stage the West Virginia Special Olympics on the campus of Marshall University and at Fairfield Stadium in Huntington.

There were 16-hundred competitors in the three day event.

The amateur radio operators coordinated the movement of the competitors from location to location, dispatched the paramedic teams and provided communications coordination for members of the Olympics organizing committee. The amateur radio coordinator was Dave Taylor, KA8QYU. The eight Charleston area hams who assisted were from the St. Albans Emergency Services group which operates the 146.40/147.000 repeater at St. Albans.

Continued on Page 19

WA4ZTH
Bob Wallace
KNOXVILLE, TENNESSEE
ALL NEW
SERA
Name Badge
$6.00 postpaid
1-1/2"X3" GREEN ON WHITE
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Two Westlink Report programs aired recently by two Kanawha Valley repeaters featured former Valley residents as co-anchors for the reports. Jim Davis, KU8R, and Jeff Clark, N8DTN, were reporting from Daytona, Fl. Both used to work at commercial radio outlets in Charleston and are apparently now working for a station in Daytona allowing them to again co-anchor the Westlink program from time to time.

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I suppose you've read by now that the new 1987-88 ARRL pocket size repeater directory lists more repeaters on the air than ever before, with a 13 percent increase in the number of listings over the previous year. The new edition includes a listing of more than 600 packet (digi) repeaters.

• • • •

Another ham recently sent me a listing of West Virginia packet stations with routing information. The list had 58 West Virginia calls with names and city/town locations. I can remember only a year or so ago when packet was starting to pick up in the Mountain State and it was difficult to find anyone to work. How that's changed since then!

• • • •

I am indebted to CVRA/SERA Eastern Kentucky District Director Fred Jones, WA4SWF, of Louisa for some packet items of interest to West Virginia hams. Fred in turn credits some of the information to Buck Earley, WA8USO, the West Virginia packet radio liaison with SERA.

Packet digipeater K8SLI-2 is operating from the WOWK-TV, Channel 13, TV tower site on Barker's Ridge. K8SLI-1 still operates from Coal Mountain where it is co-sited with the K8SLI voice repeater, 147.87/147.27, operated by the Putnam Amateur Radio Association.

The "HUNT" KA8EEU-1 digi reportedly has been removed from Huntington service permanently.

Buck, WA8USO-1 (WWVA) has the Net/Rom system on his digipeater.

Machines once down but again reported operational at the end of June are: K4AVX-1 "HAZ" in Hazard, Ky.; WB4WAU-1 Elkhorn City, Ky. (and reported "working great into the WX4S PBBS"); and WB8FQJ-1 at Logan, WV.

The W4AUZ-1 Lexington, Ky., digi now has the "LEX" alias.

WB8CNN-1 in Beckley, WV has a number of RTTY pictures available via packet.

And WB4BFS-2 in Johnson City, Tn. has been replaced by WX4S-1 as the connect route to the WX4S PBBS there.

Fred wrote about making a 2-meter packet connect with a California packet station via the "wormhole", which I gather is a satellite uplink operated by a ham in Virginia. Anyway, it sounds interesting and what a unique name for the link. Still, I've got to find out more about this, such as what satellite is being used, etc.

ARRL Board Asks To Issue Calls

The big item to come out of the ARRL board meeting at Atlanta during the National Convention in July concerned a planned request to the FCC that ARRL be named (SCSC) Special Call Sign Coordinator). This was relative to the FCCs PRB-3 proposal, which looks toward having a private sector organization issue specific Amateur radio call signs of choice to Amateurs who apply. The Commission would only issue a standard 2X3 call to Amateurs coming into the ranks. They in turn would be able to "purchase" a call sign of their choice from the SCSC.

As far as can be determined, the ARRL is the first organization to request the FCC consider granting the call sign issuing status under PRB-3.

Tennessee Tidbits

— by Tom Park, WD4KWP

The Knoxville Repeater Group has expanded its repeater system to allow Novice licensees access to their system. Robin Rumbolt, WA4TEM reports that a 100 watt ERP, 200 Mhz repeater/link made up of a converted Motorola MICOR unit has been tied to their present 145.33 Mhz WA4TEM repeater system. This new 220 link will be normally connected to the two meter repeater's RC-850 controller, thus allowing Novices full access to all the RC-850's functions including autopatch, telemetry, mailbox, and 440 Mhz remote base. Signals received on either the two meter repeater input or the 220 repeater input are transmitted out on both two meters and 220.

The new 220 repeater/link can also operate completely independently of the two meter system as a separate 220 repeater with its own microprocessor controller and speech synthesis system. Linking and unlinking with 2 meters can be done by remote control.

The 220 repeater is located at the club's main site on Sharp's ridge in the center of Knoxville.

The Tennessee Amateur Packet Society, T.A.P.S., is very close to confirming a constitution. The next State Meeting will be held July 18 at T.E.M.A. according to Tim Savage, WA4PTZ. He adds that Dave Wolf, WA4VVX has been very busy improving the digis already in place while actively securing equipment for several more.

It appears that other states are watching T.A.P.S. progress as they attempt to get their own packet operations organized. Tim reports contact from several interested parties in this regard.

Packet has been very active in its growing stages. Most people are taking the time to do the necessary paperwork and this has been very helpful in keeping down future problems. If you look in the listings you will see many new packet systems have been added.

Stubby *by Fred Hurteau, WD4SKH*

HERE IT IS ANOTHER YEAR AND ANOTHER FIELD DAY, AND YOU'RE STILL LUGGING THAT CUMBERSOME SPARE BATTERY PACK AROUND.
WELL, AT LEAST I DON'T HAVE TO STAND AROUND IN THIS HOT SUN TO FEED ANY SOLAR PANELS WHEN MY BATTERIES GET LOW.
FOOMP!
ZIP!
BIG DEAL, NEITHER DO I.
OH, YEA, I FORGOT.

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DISTRIBUTION OF REPEATERS BY FREQUENCY

The By-City Index Appears On Following Pages

2 METERS

7.43 /4.93	M	LYNCHBURG	VA
4.51 /5.11	TUN	AUGUSTA	GA
	VTA	DECATUR	GA
	RXG	SAURATOWN MT	NC
	JMT	MYRTLE BEACH	SC
	JSD	KNOXVILLE	TN
	YPE	RICHMOND	VA
	MCR	SALT ROCK	WV
4.53 /5.13	SEX	NEWNAN	GA
	VLP	VALDOSTA/TIFTON	GA
	YNF	AHOSKIE	NC
	CS	GREENWOOD/HODGES	SC
	CMY	CHATTANOOGA-RTTY	TN
	OAK	LAFOLLETTE	TN
	VL	GALAX/LKOUT MT	VA
	FHE	BUCHANNON	WV
4.55 /5.15	IWZ	PIKEVILLE	EKY
	MM	ALBANY	GA
	AQL	ATLANTA/GA TECH	GA
	LI	MILLEDGEVILLE	GA
	UDS	MORENTN/HI PK	NC
	GBI	RANDLEMAN/GBO	NC
	RJC	DECATUR-PONE KB	TN
	HCK	FRANKLIN	TN
	JE	JAMESTOWN	TN
	ARO	PETERSBURG	VA
	DBN	MARMET/BEE MT	WV
	FSE	MARTINSBURG	WV
4.57 /5.17	DIW	JONESBORO	GA
	JWO	NEWTON	NC
	EKK	OXFORD	NC
	OJF	COLUMBIA	SC
	V	LENOIR CITY	TN
	LHO	SMYRNA	TN
	DKL	BOLT/BOLT MT	WV
4.59 /5.19	IQT	BIRMINGHAM(AL)	GA
	ULJ	PINE MT/HAMILTON	GA
	BVW	MT MITCHELL	NC
	XX	JASPER	TN
	DOR	LEBANON	TN
	B	RICHMOND	VA
	JGY	WHEELING	WV
4.61 /5.21	U	DEAN	EKY
	PSZ	TYRONE	GA
	GGK	LEWISVILLE	NC
	ITL	TRENTON	NC
	NEP	GASTON	SC
	KFD	KNOXVILLE	TN
	MS	KILMARNOCK	VA
	B	LEBANON	VA
	FEQ	HUNTINGTON	WV
4.63 /5.23	PPM	MIDDLESBORO	EKY
	JF	ADEL	GA
	JEH	CONYERS	GA
	UJ	DALTON	GA
	BFB	CHARLOTTE	NC
	RA	LAVERNE	TN
	DBB	BEDFD/APL ORCH	VA
	UMI	YORKTOWN	VA
	K	LOGAN/BLAIR MT	WV
4.65 /5.25	BZJ	DALTON	GA
	KOK	FOREST PARK	GA
	AZM	GOLD HILL/GBO	NC
	URP	CHARLESTON	SC
	DRL	MEM/FISHERVILLE	TN
	AJS	NASHVILLE	TN
	JNC	CASTLEWOOD	VA
4.67 /5.27	PN	WALESKA/PNLGMT	GA
	KNI	HENDSVL/BERWLW M	NC
	BEA	RALEIGH	NC
	WZK	HENDERSONVILLE	TN
	CJX	SEV/SHIELDS MT	TN
	JCE	MANASSAS	VA
	OG	CRAIGSVILLE	WV
4.69 /5.29	ICN	PRESTONSBURG	EKY
	DRQ	ATLANTA	GA
	BFB	CHARLOTTE	NC
	ACP	MAYODAN	NC
	PPD	SHALLOTTE	NC
	VCM	CHATTANOOGA	TN
	SQC	ELZ/JC/HLST MT	TN
	FFM	NASHVILLE	TN
	NDH	CHESAPEAKE	VA
	FMD	CHARLESTON	WV
4.71 /5.31	CEK	COLUMBUS	GA
	JDR	STOCKBRIDGE	GA
	ITL	BURLINGTON	NC
	ITL	ROANOKE RAPIDS	NC
	RFA	ROCK HILL	SC
	GRC	ATHENS	TN
	SC	JACKSON	TN
	FSC	ALEXANDRIA	VA
	BZS	LAYLAND/MANN MT	WV
4.73 /5.33	OGE	JONESBORO	GA
	J	MT AIRY/TRNR MT	NC
	DFP	BAMBERG	SC
	GMT	CUMBERLAND CTY	TN
	TAG	HICKORY VALLEY	TN
	TEM	KNOXVL/SHARPS RG	TN
	OQI	FARMVILLE	VA
	VNQ	PARSONS	WV
	GOE	WILLIAMSON	WV
4.75 /5.35	R	HARLAN	EKY
	CPL	DECATUR	GA
	FGQ	ROSSVILLE	GA
	AOS	CHARLOTTE	NC
	DAN	GREENVILLE	NC
	Y	HUMBOLDT	TN
	JYD	NASHVILLE	TN
	AZJ	BLAND	VA
	AQD	FALLS CHURCH	VA
4.77 /5.37	ACH	COLUMBUS-RTTY	GA
	IZF	JASPER	GA
	AGN	WILKESBORO	NC
	GRC	KNOXVILLE	TN
	CBF	MT JULIET	TN
	IMI	GLOUCESTER	VA
	FWL	BECKLEY/EOC	WV
4.79 /5.39	HYB	GRIFFIN	GA
	NJ	MONROE	NC
	TZ	CHATTANOOGA	TN
	EPC	GREENEVILLE	TN
	DOR	HERMITAGE	TN
	VM	STANTONVILLE	TN
	ZIV	GALAX	VA
	EOM	WESTON	WV
4.81 /5.41	PME	ATLANTA/BELL	GA
	XO	HIGH POINT	NC
	KNU	WILLIAMSTON	NC
	TUO	GREENEVILLE	TN
	VIP	MEMPHIS	TN
	FHE	BUCKHANNON	WV
4.83 /5.43	LQT	ATLANTA/SWEAT MT	GA
	VBA	LINEVILLE(AL)	GA
	OLL	MACON	GA
	ITL	SPARTA/GREEN MT	NC
	HWU	COLUMBIA	SC
	UCE	COOKEVILLE	TN
	SQT	RICHMOND	VA
	WHQ	CHARLESTON	WV
	LG	MORGANTOWN	WV
4.85 /5.45	TX	LEXINGTON	EKY
	BOC	STONE MT	GA
	PLY	CROWDERS MT	NC
	WTX	DURHAM	NC
	GRW	NEWPORT	NC
	SJR	BENTON	TN
	E	SPRING HILL	TN
	SXZ	WELCH	WV
4.87 /5.47	CLA	ATLANTA/SWEAT MT	GA
	GIC	SAURATOWN MT	NC
	OXE	INMAN	SC
	CKB	KNOXVILLE	TN
	OMO	MOUNTAIN CITY	TN
	ARK	NASHVILLE	TN
	EFJ	ARLINGTON	VA
	FG	KINGSTON/LICK KB	WV
4.89 /5.49	JA	AUGUSTA	GA
	RWS	CORDELE	GA
	QPL	MARIETTA	GA
	ZCZ	FRANKLIN	NC
	CBI	RALEIGH	NC
	ABW	RKY RDG/WALLACE	SC
	SBX	GRAY	TN
	KKO	MCMINVL/SHT MT	TN
	KOG	MEMPHIS	TN
	MOP	BLUEFIELD	VA
	OHX	NEWPORT NEWS	VA
	MOP	BLUEFIELD	WV
6.895/6.295	T	HARTWELL	GA
6.925/6.325	ASI	COVINGTON	GA
6.01 /6.61	FIZ	COLUMBUS	GA
	BDP	WARNER ROBINS	GA
	SNI	GREENSBORO	NC
	JMS	NEW BERN	NC
	GY	CHELSEA	SC
	NYK	GRNVLE/CSRS HD	SC
	JMT	MYRTLE BEACH	SC
	CMY	CHATTANOOGA	TN
	PCD	NASHVILLE	TN
	LSP	BRUMLEY MT	VA
	GSP	CHESAPEAKE	VA
	WWQ	LYNCHBURG	VA
	MZI	GASSAWAY	WV
6.025/6.625	UPE	UNION CITY	GA
	JWP	VIDALIA	GA
	QWK	LARNBRG/SCOTLAND	NC
	FJX	CHESTER	SC
	ZQX	MARTIN	TN
	AVW	NEW MARKET	VA
	BZS	FLAT TOP/WINTERP	WV
6.04 /6.64	YZY	PINEVILLE	EKY
	LWT	AUGUSTA	GA
	FWD	CARROLLTON	GA
	GVG	WAYCROSS	GA
	YAO	HENDERSONVILLE	NC
	DW	RALEIGH	NC
	GIC	WINSTON-SALEM	NC
	P	SUMTER	SC
	RX	CROSSVILLE	TN
	GYS	MEMPHIS	TN
	NTM	NASHVILLE	TN
	WIC	FINCASTLE	VA
	BIW	MARION	VA
	OEY	RICHMOND	VA
	EZR	HUNTINGTON/CHAS	WV
6.055/6.655	NFP	MARIETTA	GA
	CEB	CONCORD/KANNAP.	NC
	VTX	ELIZABETH CITY	NC
	ABU	BROWNSVILLE	TN
	Z	CHATT/SIGNAL MT	TN
	PDP	ALEXANDRIA	VA
	ISI	ALTAVISTA	VA
	HON	SPRUCE KNOB	WV
6.06 /6.66	BKM	MACON	GA
6.07 /6.67	VHF	HAZARD	EKY
	NSO	GAINESVILLE	GA
	EQL	JESUP	GA
	ZIN	BURLINGTON	NC
	TMT	CHERRY MT	NC
	SJ	HALIFAX	NC
	ILW	BRISTOL	TN
	BGW	LAFOLLETTE/WMT	TN
	NTM	NASHVILLE S.W.	TN
	HZS	BARREN SPRINGS	VA
	ZR	LEXINGTON	VA
	NTG	WILLIAMSBURG	VA
	JNU	RAVENSWOOD	WV
6.08 /6.68	IQT	LEEDS(AL)	GA
6.085/6.685	IWL	ADAIRSVILLE	GA
	UWN	FAYETTEVILLE	GA
	NBR	GRIFTON	NC
	O	STATESVILLE	NC
	CO	NEWBERRY	SC
	PIO	LENOIR CITY	TN
	Q	WAVERLY	TN
	HTA	VIENNA	VA
	FMD	CLARKSBURG	WV
6.10 /6.70	JO	GRAYSON	EKY
	MM	ALBANY	GA
	OOM	JASPER	GA
	DOJ	MILLEDGEVILLE	GA
	NLX	SAVANNAH	GA
	CID	DUNN	NC
	PAX	LANCASTER	SC
	UOT	MANCHESTER	TN
	UFT	MEMPHIS	TN
	YGM	UNION CITY	TN
	WQS	DANVILLE/WHT OAK	VA
	BHH	DUFFLD/POWLL MT	VA
	D	NORFOLK	VA
	XD	STAUNTON	VA
	JNU	RAVENSWOOD	WV
6.115/6.715	ABZ	RINGGOLD	GA
	GGN	MILLERS CREEK	NC
	KDC	SPRING LAKE	NC
	NEP	COLUMBIA	SC
	I	BLACKSBURG	VA
	TXE	STERLING	VA
	GL	SHERRARD	WV
6.13 /6.73	SWF	LOUISA	EKY
	MM	ALBANY	GA
	NC	ATLANTA/SWEAT MT	GA
	TVE	BRUNSWICK	GA
	FT	MARIETTA	GA
	BWC	RALEIGH	NC
	EXU	SALISBURY	NC
	VNK	WILMINGTON	NC
	FKJ	N. AUGUSTA	SC
	BJY	SIMPSONVILLE	SC
	IOB	KNXVL/ENG MT	TN
	VZ	LEBANON	TN
	DAZ	MEMPHIS	TN
	DHO	HAMPTON	VA
	AVZ	ALDERSON	WV
6.145/6.745	BKF	ATHENS	GA
	N	DILLON/PEE DEE	SC
	HF	DYERSBURG	TN
	QOJ	ROANOKE/POOR MT	VA
	FMD	BURLINGTON	WV
6.15 /6.76	BOC	ATLANTA/STONE MT	GA
	APS	VALDOSTA	GA
	BVW	ASHVL/MT PISGAH	NC
	MSS	GREENSBORO	NC
	S	SWANSBORO	NC
	THL	WILSON	NC
	ILT	CHARLESTON	SC
	OCB	FT JACKSON	SC
	LSP	BRISTOL/HLSTN MT	TN
	POP	NASHVILLE	TN
	TFZ	CHARLOTTESVILLE	VA
	STE	LYNCHBURG	VA
	VA	HUNTINGTON	WV
	CUL	MORGANTOWN	WV
	JDH	WHEELING	WV
6.175/6.775	KE	MARIETTA	GA
	OCB	WRENS	GA
	BFB	CHARLOTTE/RTTY	NC
	DHW	ELIZABETHTOWN	NC
	JVO	PULASKI/MUS MT	TN
	EMS	W'THEVILLE	VA
6.19 /6.79	GEL	PIKEVILLE	EKY
	DMK	FOLKSTON	GA
	KOW	MOULTRIE	GA
	SEX	NEWNAN	GA
	VYX	SWAINSBORO	GA
	LZD	CLINTON	NC
	LDK	SAURATOWN MT	NC
	FVV	ANDERSON/SAS MT	SC
	IVE	CHARLESTON	SC
	DSK	CHATTANOOGA	TN
	ABR	JOHNSON CITY	TN
	SOE	NASHVILLE	TN
	SD	CHESAPEAKE	VA
	LBL	FAIRFAX	VA
	CFT	OAK HILL	WV
6.205/6.805	NNE	GUTHRIE	EKY
	LT	MILLEDGEVILLE	GA
	EWG	FAYETTEVILLE	NC
	NQQ	GASTONIA	NC
	NNA	GUTHRIE (TN/KY)	TN
	HTI	COVINGTON	VA
7.405/6.805	HCY	MAGGIE VALLEY	NC
6.22 /6.82	MM	ALBANY	GA

Continued On Next Page

REPEATERS BY FREQUENCY

	DOC	ATLANTA	GA
	PZA	ROARING GAP	NC
	GMP	WILMINGTON	NC
	NYK	GRNVLE/PARIS MT	SC
	OAH	LAKE CITY	TN
	BS	MEMPHIS	TN
	UEW	WINCHESTER	TN
	RKC	WINCHESTER	VA
	IFS	CHARLESTON	WV
6.235/6.835	UA	AUGUSTA	GA
	P	HAMPTON	GA
	QCO	ASHEVILLE	NC
	JXG	NAGS HEAD/BODIE	NC
	IAT	WADESBORO	NC
	CYZ	HAZEL MT	VA
	ECM	RICHMOND	VA
7.435/6.835	BPV	HIGH POINT	NC
6.25 /6.85	IXA	PIKEVILLE	EKY
	DVJ	DALLAS	GA
	R	LAGRANGE	GA
	HON	WARNER ROBINS	GA
	CYP	GOLDSBORO	NC
	MDW	HICKORY/BRT. MT	NC
	YFT	REIDSVILLE	NC
	ULH	FLORENCE	SC
	KJH	GTLBG/COVE MTN	TN
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	MG	PORTSMOUTH	VA
	ZBP	STAUNTON	VA
	BO	BECKLEY/FLAT TOP	WV
	WYH	BUCKHANNON	WV
6.265/6.865	DKY	MADISON	GA
	YF	BIG KNOB/GREY CT	SC
	G	FAYETTEVILLE	TN
7.465/6.865	ZRS	WAXHAW	NC
6.28 /6.88	KUC	PRESTONSBURG	EKY
	AGO	COLUMBUS	GA
	BTI	MARIETTA	GA
	NKL	QUITMAN	GA
	HBB	SAVANNAH	GA
	ITL	RALEIGH	NC
	NYR	SHELBY	NC
	AVU	COLUMBIA	SC
	CYZ	BRISTOL	TN
	ETE	MEMPHIS	TN
	PCD	NASHVILLE	TN
	SKH	OAK RIDGE	TN
	CYZ	BRISTOL	VA
	ZBE	RICHMOND	VA
	PDL	SALEM	VA
	CQV	CHARLESTON	WV
6.295/6.895	YFF	MADISON	NC
	OOA	WAXHAW	NC
	KXV	VIRGINIA BEACH	VA
6.30 /6.90	ACN	JASPER(AL)	GA
	SP	FAIRMONT	WV
6.31 /6.91	GFY	MOREHEAD	EKY
	FOW	CLEVELAND/LONG	GA
	HYB	GRIFFIN	GA
	ZGQ	AHOSKIE	NC
	MOE	ASHVL/SPIVEY MT	NC
	YZF	FAYVLLE/CFARS	NC
	IZM	LEXINGTON	NC
	BWZ	WHITE HALL	SC
	DQU	SAVANNAH	TN
	YXA	SHORT MTN	TN
	AXH	BLACKSTONE	VA
	OVC	JONESVILLE	VA
	TUE	MT. LK/BALD KNB	VA
	FMD	TYSONS CORNER	VA
	ULB	MCMECHEN	WV
6.325/6.925	CWZ	ROCK HILL	SC
	TFZ	CHARLOTTESVILLE	VA
	GJG	DANVILLE(DCC)	VA
	OGY	PRINCETON/PIPEST	WV
6.34 /6.94	SN	ASHLAND	EKY
	N	AUGUSTA	GA
	VO	ROME	GA
	RVB	WRIGHTSVILLE	GA
	DLH	BURGAW	NC
	BFB	CHARLOTTE	NC
	BFT	DURHAM	NC
	ACY	MANTEO/WANCHESE	NC
	ZAS	MT AIRY/RTTY	NC
	IOQ	GREENVILLE	SC
	CKB	KNOXVILLE	TN
	BN	MEMPHIS	TN
	PCD	NASHVILLE	TN
	UMI	HAMPTON	VA
	ZA	RICHMOND	VA
	OET	ROANOKE	VA
	CSW	NEW MARTINSVILLE	WV
	VKB	SUMMERSVILLE	WV
	JN	WEIRTON	WV
7.54 /6.94	CSW	NEW MARTINSVLLE	WV
6.355/6.955	KIN	PERRY	GA
	EFL	KNG HRS/RCKY TP	GA
	ULA	ROCKINGHAM	NC
	MZ	ONEIDA PEAK/BLF	VA
6.37 /6.97	OD	ATLANTA	GA
	HBB	SAVANNAH	GA
	ZAS	MT AIRY	NC
	JO	SMITHFIELD	NC
	SZ	ANDERSON	SC
	ISM	FLORENCE	SC
	TRC	KNGSPT/BAYS MT	TN
	CPJ	MCMINNVILLE	TN
	BEZ	MEDINA	TN
	SKH	OAK RIDGE	TN
	FPM	MANASSAS	VA
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	DRV	LOGAN/WARD RK MT	WV
	CRW	PARKERSBURG	WV
6.385/6.985	I	AUGUSTA	GA
	HHH	ELLIJAY	GA
	TOV	PRESTON	GA
	UUB	ST. MARYS	GA
	OGB	ALBEMARLE	NC
	ROZ	OLD FORT	NC
	ESG	MT PLEASANT	SC
	CA	ROANOKE/POOR MT	VA

6.40 /7.00	NNO	ATLANTA	GA
	LDK	HIGH POINT	NC
	FVO	JACKSONVILLE	NC
	YLT	MARION	SC
	YXZ	PICKENS	SC
	FZJ	MEMPHIS	TN
	HMT	SUFFOLK	VA
	GDY	ST ALBANS	WV
7.60 /7.00	WAU	ELKHORN CITY	EKY
	LZQ	HINESVILLE	GA
	DXZ	LANETT(AL)	GA
	KMG	BLOUNTVILLE	TN
	ZOK	CHATT/SIGNAL MT	TN
	TEQ	CLARKSVILLE	TN
	ZR	TERRA ALTA	WV
7.615/7.015	FOW	CLEVELAND/LONG	GA
	MST	WARNER ROBINS	GA
	KPF	LK NORMN/CLT	NC
	UMU	SUMTER	SC
	RHV	HARRIMAN	TN
	K	NASHVILLE	TN
	YGM	UNION CITY	TN
	LNT	FREDRICKSBURG	VA
6.43 /7.03	YTZ	ROCK HILL	SC
	LGH	LEXINGTON	TN
	ODR	MILLINGTON/NB	TN
	JST	RICHMOND	VA
7.63 /7.03	REI	ATLANTA/AIRPORT	GA
	GG	GREENSBORO	NC
	DTS	ROANOKE RAPIDS	NC
	FOF	BARNWELL	SC
	JYR	MYRTLE BEACH, N	SC
	NIQ	FAYETTEVILLE	TN
	ZJM	MEMPHIS	TN
	PRQ	MORRISTOWN	TN
	BLD	WAYNESBORO	VA
	IT	MULLENS/HRDN MT	WV
	ECC	ST MARYS/BENS R	WV
6.445/7.045	FLR	FAYETTEVILLE	NC
	CNS	ROB/JOANNA BLD	NC
	YVM	ARLINGTON	VA
7.645/7.045	TYM	METTER	GA
	JRL	STATSVL/ASBRY MT	NC
	WA	RADFORD	VA
	WRN	STAUNTON/EL. KB	VA
	SBC	VIRGINIA BEACH	VA
6.06 /7.06	JYR	MADISON	WV
6.46 /7.06	CQ	CHARLOTTE	NC
	MQQ	MEMPHIS	TN
	LBM	VOLENS	VA
	WL	PRINCETON	WV
7.66 /7.06	ICT	MACON	GA
	CLA	ROSWELL	GA
	UCJ	THOMASVILLE	GA
	LED	MACO	NC
	VFR	SUMTER	SC
	LYF	GRNVLE/GRYSTN	TN
	OEB	SHELBYVILLE	TN
	ECM	CHESTERFLD CO	VA
	KNM	POINT PLEASANT	WV
6.475/7.075	VGZ	BURLINGTON	NC
7.675/7.075	JXR	SNELLVILLE	GA
	HBD	BURLINGTON	NC
	KAC	KNOXVILLE	TN
	PNT	WAYNSBR/BEAR DEN	VA
7.69 /7.09	NDB	FLAT GAP	EKY
	CVE	ST SIMONS ISL	GA
	GDF	GREENVL/ESTN NC	NC
	OXE	SPARTANBURG	SC
	BSA	SPARTA/BON AIR	TN
	VL	GALAX/BRRP MT	VA
7.705/7.105	YSB	ATLANTA	GA
	GHH	MARION	NC
	JCK	MONROE/UCARS	NC
	JBJ	BEDFORD	VA
	VNQ	MT STORM	WV
6.09 /7.11	ZLR	LOGAN	WV
7.72 /7.12	ASZ	WINCHESTER	EKY
	MM	ALBANY	GA
	S	AUGUSTA	GA
	CMA	CEDARTOWN	GA
	REW	GAST/SPCR MT	NC
	FTB	GIBSONVILLE	NC
	EWL	ROCKY MOUNT	NC
	YGE	MYRTLE BEACH	SC
	DAZ	MEMPHIS	TN
	EAJ	OAK RIDGE	TN
	FAF	CULPEPPER	VA
	DKM	BRIDGEPORT	WV
	VKI	DUNBAR	WV
7.735/7.135	BZJ	DALTON	GA
	JFE	VALDOSTA	GA
	CJS	BREVARD/RICH MTN	NC
	ABW	CHERAW	SC
	EDS	ALAMO	TN
	AZJ	PEARISBURG	VA
	HB	RICHMOND	VA
7.745/7.145	KNE	MT. STERLING	EKY
7.75 /7.15	MWA	DOG FORK MT	EKY
	TFW	ALBANY	GA
	3YK	CUMMING/SAWNEE	GA
	VLY	MORGANTON	NC
	ITL	RALEIGH	NC
	BJM	MONKS CORNER	SC
	SDT	SIMPSONVILLE	SC
	KUB	MEMPHIS	TN
	PCD	NASHVILLE	TN
	EAJ	OAK RIDGE	TN
	OKH	TAZEWELL	VA
	SVR	ST ALBANS	WV
7.765/7.165	TCU	DOUGLAS	GA
	RT	HIGH POINT	NC
	YF	GREENWOOD	SC
	CEX	PURYEAR	TN
	CTF	NEWPORT NEWS	VA
	FJT	WARRENTON	VA
7.78 /7.18	BMA	AUGUSTA	GA
	NHW	BALDWIN	GA
	BI	SYCAMORE	GA
	EJJ	SANFORD	NC
	CTJ	WILMINGTON	NC
	SC	FT MILL/CAROWND	SC

	NAT	GOOSE CREEK	SC
	KOG	MEMPHIS	TN
	PCD	NASHVILLE	TN
	DES	POLK CTY/OSWALD	TN
	KAF	PETERSBURG	VA
	Z	PKS KB/PULASKI	VA
	NMT	LEON	WV
7.795/7.195	SMX	ATLANTA	GA
	RD	CAIRO	GA
	WB	MURPHY	NC
	RTS	LYNCHBURG	VA
7.81 /7.21	SG	CONYERS	GA
	LN	DALTON	GA
	NLX	SAVANNAH	GA
	BUZ	GREENSBORO	NC
	MSD	WHITEVILLE	NC
	AVU	LITTLE MT.	SC
	WS	COOKEVILLE	TN
	WKZ	JACKSON	TN
	IWG	MCLEAN	VA
	AXO	WISE/HIGH KNOB	VA
	TC	CHARLESTON	WV
7.825/7.225	LVY	SUMMERVILLE	GA
	WTX	HILLSBOROUGH	NC
	DTW	LAKE MARION	SC
	OAH	MORRISTOWN	TN
	SDC	YORKTOWN	VA
7.84 /7.24	DI	ASHLAND	EKY
	NFG	IRWINTON	GA
	NIW	CARTHAGE	NC
	ACP	EDEN/MAYODAN	NC
	BKU	FOREST CITY	NC
	GHZ	FRANKLIN	NC
	BAL	HILTON HEAD	SC
	BGF	LANCASTER	SC
	INT	GALLATIN	TN
	APK	MEMPHIS	TN
	OKH	SOUTH HILL	VA
	FQR	WOODBRIDGE	VA
7.855/7.255	KDT	ATLANTA	GA
	AV	ASHEBORO	NC
	KNI	HENDSVL/PINCK MT	NC
	SI	PETROS	TN
	TVS	ACCOMAC	VA
	DCX	GRUNDY/BIG A MT	VA
	VAZ	MARTINSBURG	WV
7.885/7.255	BZU	DONELSON	TN
7.87 /7.27	GEL	PIKEVILLE	EKY
	VBH	AMERICUS	GA
	PJE	FORT PAYNE(AL)	GA
	H	BENSON	NC
	SM	WAYNESVILLE	NC
	LET	CHARLESTON	SC
	JRJ	SENECA/LONG MT	SC
	YQC	GALLATIN	TN
	FH	JOHNSON CITY	TN
	GX	GUM SPRING	VA
	SLJ	CHARLESTON/HGTN	WV
7.885/7.285	BI	ASHBURN	GA
	VBX	ATLANTA/GPCO	GA
	ADM	AIKEN	SC
	DCD	BRKSVLLE/MYTL BE	SC
	I	ROCKY SPUR	SC
	MJM	PIKEVILLE	TN
	L	MARTINSVILLE	VA
7.90 /7.30	HNM	ROME	GA
	HNM	SVR CRK/MT ALTO	GA
	HON	WARNER ROBINS	GA
	ATW	JACKSONVILLE	NC
	YJG	JEFFERSON	NC
	NHV	LUMBERTON	NC
	OMV	TUCKASEGEE	NC
	LWS	CHARLESTON	SC
	LWS	MT PLEASANT	SC
	BBB	KNOXVILLE	TN
	ADT	MEMPHIS	TN
	ZSA	NASHVILLE	TN
	SPS	FRANKLIN	VA
	ZR	LEXINGTON	VA
	TSC	WINCH/BLUEMONT	VA
	NSL	HARRISVILLE	WV
	BKX	HUNTINGTON	WV
7.915/7.315	RBW	UNION CROSS	NC
	HFH	ALEXANDRIA	VA
	MR	CLARKSBURG	WV
7.92 /7.32	HWQ	GRUNDY	VA
7.93 /7.33	KWH	ASHLAND	EKY
	BXO	LAGRANGE	GA
	DIP	TOCCOA	GA
	LPL	FAYVLLE/FT BRAGG	NC
	K	LENOIR/HIBRITN	NC
	KIO	COLUMBIA	SC
	VXW	COVINGTON	TN
	CV	CROSSVILLE	TN
	AJS	NASHVILLE	TN
	POD	LEXNGTN/COLE MT	VA
	ZP	NORSAW	VA
7.94 /7.34	NEQ	ATLANTA/SWEAT MT	GA
7.945/7.345	IZD	LYNCH/BLACK MT	EKY
	NYR	SHELBY	NC
	TEP	WASHINGTON	NC
	WF	HENDERSONVILLE	TN
	VR	WYTHE/SAND MTN	VA
	RUA	FRANKLIN	WV
7.95 /7.35	YZR	DANVILLE	VA
7.96 /7.36	EO	DOUGLASVILLE	GA
	HZX	DUBLIN	GA
	V	BOONE/RICH MTN	NC
	LDB	DURHAM	NC
	Z	LUMBERTON	NC
	ZGW	SUMMERVILLE	SC
	OAK	KNXVL/CROSS MT	TN
	MMI	MEMPHIS	TN

Continued On Next Page

PLEASE NOTE!

The letters column between the frequency and city indicate suffixes of the repeater callsign.

REPEATERS BY FREQUENCY CONTINUED

	NTM	NASHVILLE S.	TN
	KLX	PARIS	TN
	CBB	CHESTERFIELD	VA
7.975/7.375	TQU	ATHENS	GA
	YN	BURNSVILLE	NC
	ROK	GREENVILLE	SC
	DMI	GEORGETOWN	SC
	LEO	GREENVILLE	SC
	BTJ	HILLSVILLE	VA
	ILD	LYNCHBURG	VA
	NV	VIRGINIA BEACH	VA
	LNB	GRAFTON	WV
	WMX	ST ALBANS	WV
7.99 /7.39	PDJ	JENKINS	EKY
	IMK	THOMASTON	GA
	PLY	CHARLOTTE	NC
	OBG	EDEN/STONEVILLE	NC
	MKL	SMITHFIELD	NC
	FEC	LEXINGTON/LIT MT	SC
	TA	CLARKSVILLE	TN
	ZLA	DAYTON/RHEA CTY	TN
	AJO	MADISON	VA
	ARO	PETERSBURG	VA
	JZN	PARKERSBURG	WV
6.19 /7.51	FZJ	MEMPHIS	TN
7.315/7.915	SPJ	FORSYTH	GA
7.705/.105	D	STATESBORO	GA

220 MHZ

1.11 /PKET	BOX	JACKSON	TN
3.70 /PKET	GOX	SAWNEE MT/CUMMIN	GA
2.12 /3.72	PGA	LOUISA	EKY
2.30 /3.80	NSO	GAINSVILLE	GA
	RAB	HERMITAGE	TN
2.32 /3.92	AZA	HIGH POINT	NC
2.34 /3.94	QK	ASHLAND	EKY
	BVW	ASHVL/MT PISGAH	NC
	WTX	HILLSBOROUGH	NC
	GP	CLARKSVILLE	TN
	ZJM	MEMPHS/FRAYSER	TN
2.36 /3.96	C	ROCKY MOUNT	NC
2.38 /3.98	APS	VALDOSTA	GA
	HUV	LINWOOD	NC
	ILY	GREER	SC
	ZSA	GALLATIN	TN
2.40 /4.00	IZP	JASPER	GA
	ZIA	LOCUST	NC
	ARO	PETERSBURG	VA
2.90 /4.00	JEH	CONYERS	GA
2.42 /4.02	EHF	FAYETTEVILLE	NC
	MDW	HICKORY	NC
	TB	NASHVILLE	TN
2.44 /4.04	BZJ	DALTON	GA
2.46 /4.06	UPC	BUCHANAN/HARALSO	GA
	N	EASLEY/SASFRS MT	SC
	BZS	FLT TP/WNTRPLACE	WV
2.48 /4.08	LEX	NASHVILLE	TN
2.50 /4.10	YHD	FAIRFAX	VA
	DBB	ROANOKE	VA
2.52 /4.12	NFP	ATLANTA/SWEAT MT	GA
	FEC	LITTLE MT	SC
	MEY	NASHVILLE	TN
2.54 /4.14	WOR	LUMBERTON	NC
	QHF	PICKENS/CSRS HD	SC
	SGS	FRANKLIN	TN
	YYW	WILLIAMSON	WV
2.56 /4.16	K	LENOIR/HIBRITN	NC
	TA	CLARKSVILLE	TN
2.58 /4.18	TAG	HICKORY VALLEY	TN
2.62 /4.22	AWB	NASHVILLE	TN
2.64 /4.24	KNI	HENDSVL/BERWLW M	NC
2.66 /4.26	NP	MT. JULIET	TN
	QKH	TAZEWELL	VA
2.68 /4.28	M	LYNCHBURG	VA
2.70 /4.30	PVI	STATESVILLE	NC
2.72 /4.32	JBF	THOMASVILLE	GA
2.74 /4.34	DOC	ATLANTA	GA
	DFH	FRIES/SAND MTN	VA
2.76 /4.36	YTO	MARSHALL	NC
2.78 /4.38	AUG	DANVILLE	VA
2.80 /4.40	ZC	CHARLT/MINT HL	NC
2.82 /4.42	GSM	NORTON/HIGH KB	VA
2.84 /4.44	OG	NASHVILLE	TN
2.86 /4.46	YON	KNOXVILLE	TN
2.88 /4.48	LNB	GRAFTON	WV
2.90 /4.50	KSM	CANTON	GA
	BBB	KNOXVILLE	TN
	DRL	MEM/FISHERVILLE	TN
2.94 /4.54	BVW	MT MITCHELL	NC
2.96 /4.56	DOC	ATLANTA	GA
	JEH	CONYERS	GA
2.98 /4.58	F	PIKEVILLE	EKY
3.00 /4.60	N	ASHEVILLE	NC
3.02 /4.62	ETG	PIKEVILLE	EKY
	ZTL	ATLANTA/BELL	GA
3.04 /4.64	PEN	RALEIGH	NC
	YHH	WINSTON-SALEM	NC
3.06 /4.66	TG	GRAY	GA
3.08 /4.68	KPF	LK NORMN/CLT	NC
3.10 /4.70	RXG	SAURATOWN MT	NC
3.12 /4.72	MSK	MT. TOXAWAY	NC
	KHP	TYSONS CORNER	VA
3.14 /4.74	FG	KINGSTON/LICK KB	WV
3.16 /4.76	BOC	STONE MT	GA
	EXU	SALISBURY	NC
	OAK	DAN/WHT OAK	VA
3.18 /4.78	VCM	CHATTANOOGA	TN
	UCI	JOHNSON CITY	TN
3.20 /4.80	PML	MORGANTON	NC
3.22 /4.82	C	ATLANTA	GA
	IKY	GREENSBORO	NC
	CCF	ALEXANDRIA	VA
3.24 /4.84	KVC	DALTON	GA
	ACY	PERRY	GA
	DAN	GRIFTON	NC
	PLV	BEDFORD	VA
3.26 /4.86	TEM	KNOXVILLE	TN
	UHA	NEWPORT NEWS	VA
3.28 /4.88	RXG	SAURATOWN MT	NC
3.30 /4.90	OPL	MARIETTA	GA
	EOY	COLUMBIA	SC
	ZOK	CHATT/SIGNAL MT	TN
3.34 /4.94	I	AUGUSTA	GA
	UPC	BUCHANAN/HARALSO	GA
	EV	ROSSVILLE	GA
	NKM	GREENEVILLE	TN
	DBB	ROANOKE/POOR MTN	VA
3.36 /4.96	UDS	CHERRYVILLE	NC
	JVX	GOLDSBORO	NC
3.38 /4.98	JSR	CUMMINS/SAWNE MT	GA
	CHP	FALLS CHURCH	VA

440 MHZ

3.80 /PKET	KDC	NASHVILLE	TN
	CPF	SEWANEE	TN
	YXA	SHORT MTN	TN
	VVX	WAVERLY	TN
3.80 /PKET	VVX	RIPLEY	TN
6.50 /PKET	KQQ	MEMPHIS	TN
9.45 /5.67	DOC	ATLANTA	GA
9.25 /1.25	KIP	ATLANTA	GA
	PXX	BRUNSWICK	GA
	AZA	SAURATOWN MT	NC
	GUP	LEXINGTON	SC
	UMU	SUMTER	SC
	GGK	LEWISVILLE	NC
	WIN	NORFOLK	VA
	MM	ALBANY	GA
	NYR	SHELBY	NC
	ZOK	CHATT/SIGNAL MT	TN
7.00 /2.00	WAY	PICKENS/CSRS HD	SC
	BIW	MARION	VA
	CSG	WINCHESTER	VA
7.05 /2.05	DXZ	LANETT(AL)	GA
	PML	MORGANTON	NC
	XX	JASPER	TN
	BEZ	MEDINA	TN
7.10 /2.10	ACP	EDEN	NC
	ABJ	MILAN	TN
7.15 /2.15	BEA	RALEIGH	NC
7.175/2.175	EO	ROCKY FACE	GA
7.20 /2.20	BJY	JACKSON	TN
	LNB	GRAFTON	WV
7.25 /2.25	HTI	COVINGTON	VA
7.325/2.325	JSR	CHATTANOOGA	TN
7.50 /2.50	NTZ	KNOXVILLE	TN
	CA	ROANOKE/POOR MT	VA
7.55 /2.55	JEH	CONYERS	GA
7.70 /2.70	HON	ROANOKE	VA
7.80 /2.80	EPG	JACKSON	TN
	QWW	MEMPHIS	TN
7.90 /2.90	AZA	HIGH POINT	NC
8.00 /3.00	EO	CHATSWORTH	GA
	ZJM	MEMPHIS	TN
8.05 /3.05	JVX	GOLDSBORO	NC
	PUB	MT JULIET	TN
8.10 /3.10	IZD	LYNCH/BLACK MT	EKY
	GGC	SAURATOWN MT	NC
	FHE	BUCKHANNON	WV
8.145/3.145	OCB	AUGUSTA	GA
8.20 /3.20	CLA	SWEAT MT	GA
	TAG	HICKORY VALLEY	TN
8.30 /3.30	KOI	WOODLEAF	NC
	KJH	GATLBG/COVE MT	TN
8.40 /3.40	DOR	MEMPHIS	TN
8.50 /3.50	LVH	CONYERS	GA
	PQZ	GREENSBORO	NC
	WKS	PARIS/GROVE HL	TN
	GUS	TYSONS CORNER	VA
8.55 /3.55	LVH	ATLANTA/NE	GA
	XE	ROARING GAP	NC
8.60 /3.60	DWU	MT MITCHELL	NC
8.65 /3.65	UMI	HAMPTON	VA
8.70 /3.70	LXW	HIGH POINT	NC
	LBT	LOCUST	NC
8.75 /3.75	EDS	ALAVO	TN
	WIC	FINCASTLE	VA
8.30 /3.80	EAQ	MANASSAS	VA
8.80 /3.80	OKS	JASPER/BIG BUCK	GA
	HNK	SUMMERVILLE	SC
	K	NORTHWEST/SE VA	VA
8.85 /3.85	IDB	FRANKLIN	TN
8.875/3.875	LZQ	CAESARS HEAD	SC
8.90 /3.90	GWA	GRIFFIN	GA
	EVG	CHESAPEAKE	VA
8.925/3.925	IU	RINGGOLD	GA
8.95 /3.95	NTG	WILLIAMSBURG	VA
9.00 /4.00	QDX	LAWRENCEVILLE	GA
	JEQ	HICKORY	NC
	SDC	VIRGINIA BEACH	VA
	IT	MULLENS/HRNDN MT	WV
9.025/4.025	MSE	STONE MT	GA
9.05 /4.05	PQD	MARIETTA	GA
	OG	NASHVILLE	TN
	BLD	ATTON MT	VA
7.075/4.075	DOC	ATLANTA	GA
8.10 /4.10	G	FAYETTEVILLE	TN
9.10 /4.10	WTX	DURHAM	NC
	YI	COLUMBIA	SC
	NFO	CHATTANOOGA	TN
	JXT	MEMPHIS	TN
9.15 /4.15	LDR	ATLANTA/BELL	GA
	NTM	NASHVILLE	TN
	POD	LEXNGTN/COLE MT	VA
	VA	SPRINGFIELD	VA
8.175/4.175	DOC	ATLANTA	GA
9.20 /4.20	OHN	COLUMBUS	GA
	LBM	DECATUR	GA
	NEX	MORRISTOWN	TN
	EZA	WAYNESBORO	VA
9.25 /4.25	BOC	ATLANTA/STONE MT	GA
	KNI	HENDSVL/BERWLW M	NC
	FUD	SMYRNA	TN
	TFZ	CHARLOTTESVILLE	VA
9.30 /4.30	DDS	FISHERVILLE	TN
	HXD	KNOXVILLE	TN
	DRL	MEM/FISHERVILLE	TN
	BLD	WAYNESBORO	VA
9.325/4.325	MPW	MARIETTA	GA
	MPW	SANDY SPRNGS/ATL	GA
8.35 /4.35	GQN	N. WILKESBORO	NC
9.35 /4.35	JF	TIFTON	GA
	DBB	BEDFD/APL ORCH	VA
9.375/4.375	BFD	MT OGELTHORPE	GA
9.40 /4.40	ZW	FAYETTEVILLE	NC
	EAJ	OAK RIDGE	TN
	FQJ	LOGAN/WARD RK	WV
9.425/4.425	ISI	ALTAVISTA	VA
9.45 /4.45	KWP	GALLATIN	TN
	CRK	FALLS CHURCH	VA
9.50 /4.50	MM	ALBANY	GA
	UWL	ATLANTA	GA
	KSL	KNOXVILLE	TN
	IZF	MEMPHIS	TN
	HEX	LYNCHBURG	VA
	QYU	HUNTINGTON	WV
9.55 /4.55	NEF	TYRONE	GA
	PCD	NASHVILLE	TN
9.60 /4.60	BFB	CHARLOTTE	NC
	NK	KNOXVILLE	TN
	HFH	ALEXANDRIA	VA
	OZT	ST ALBANS	WV
9.625/4.625	WQ	ATLANTA	GA
	MZ	BLUEFIELD	VA
9.65 /4.65	IBW	SMYRNA	GA
	EXU	SALISBURY	NC
	KNU	WILLIAMSTON	NC
	NKM	GREENEVILLE	TN
	ARO	RICHMOND	VA
9.675/4.675	AY	NASHVILLE	TN
9.70 /4.70	HHH	ELLIJAY	GA
	APS	VALDOSTA	GA
	JEH	ROCKY MOUNT	NC
	BR	WILMINGTON	NC
	DRU	MT PLEASANT	SC
	MMI	MEMPHIS	TN
	LG	MORGANTOWN	WV
9.735/4.735	TIW	DALTON	GA
9.75 /4.75	RFA	ROCK HILL	SC
	BFS	ELIZ/HOLSTON MT	TN
	JYF	TYSONS CORNER	VA
9.775/4.775	FNP	MARIETTA	GA
	QES	NASHVILLE	TN
9.80 /4.80	J	GREENVILLE	NC
	UY	MT AIRY/FSH PK	NC
	APK	MEMPHIS	TN
	MIC	OILVILLE	VA
	FRV	LK KNOB/KINSTON	WV
	CUL	MORGANTOWN	WV
9.825/4.825	XD	STAUNTON	VA
9.85 /4.85	CQ	CHARLOTTE	NC
	GMP	WILMINGTON	NC
	ARO	PETERSBURG	VA
9.875/4.875	THG	NASHVILLE	TN
	FMD	CLARKSBURG	WV
9.90 /4.90	CQS	ASHVL/MT PISGAH	NC
	ZW	FAYETTEVILLE	NC
	VBC	NEW BERN	NC
	J	WILSON	NC
	MMI	MEMPHIS	TN
9.925/4.925	NNO	ATLANTA	GA
	BUH	ANDERSON/SAS MT	SC
9.95 /4.95	I	AUGUSTA	GA
	KIN	PERRY	GA
	WXL	RALEIGH	NC
	KQQ	MEMPHIS	TN
	WRN	STAUNTON	VA
	KXV	VIRGINIA BEACH	VA
	CQV	S. CHARLESTON	WV
9.975/4.975	YNZ	ATLANTA	GA
	TVE	BRUNSWICK	GA
	GIC	SAURATOWN MT	NC
	QES	NASHVILLE	TN
6.65 /6.65	DBB	ROANOKE	VA
3.50 /8.50	LBH	CONYERS	GA
4.225/9.225	JCE	MANASSAS	VA
4.40 /9.40	KOG	MEMPHIS	TN
4.825/9.825	DOC	ATLANTA	GA
4.90 /9.90	OLL	MACON	GA
	FQR	WOODBRIDGE	VA
4.925/9.925	TSC	WINCH/BLUEMONT	VA
2.01 /ACON	DRL	FISHERVILLE	TN

920 MHZ

7.10 /9.10	TAG	HICKORY VALLEY	TN
8.00 /0.00	PAR	LEXINGTON	NC
9.00 /1.00	PAR	LEXINGTON	NC
9.10 /1.10	DRL	MEM/FISHERVILLE	TN

1270 MHZ

1.40 /1.40	DOC	ATLANTA	GA
1.10 /1.10	DRL	MEM/FISHERVILLE	TN
1.20 /1.20	TAG	HICKORY VALLEY	TN

10 METERS

9.60 /9.60	TFZ	CHARLOTTESVILLE	VA
	CTF	NEWPORT NEWS	VA
9.52 /9.62	LVH	CONYERS	GA
	XE	WILKESBORO	NC
	IOB	KNXVL/ENG MT	TN
	ZJM	MEMPHIS/FRAYSER	TN
	MXT	RICHMOND	VA
9.54 /9.64	BZU	DONELSON	TN
	TAG	HICKORY VALLEY	TN
9.56 /9.66	IS	SANDY SPR/ATL	GA
	ACP	EDEN	NC
9.58 /9.68	MM	ALBANY	GA
	BZJ	DALTON	GA
	DRL	MEM/FISHERVILLE	TN
	DN	STERLING	VA

6 METERS

2.58 /2.48	DCS	FAIRFAX	VA
2.525/2.525	YAO	HENDERSONVILLE	NC
	AZA	HIGH POINT	NC
	TFZ	CHARLOTTESVILLE	VA
2.64 /2.84	KHP	FAIRFAX STA	VA
2.01 /3.01	YAO	HENDERSONVILLE	NC
	GRW	NEWPORT	NC
	LRD	CHATTANOOGA	TN

Concludes At Bottom Of Next Page

CVRA-SERA REPEATER INDEX LISTINGS BY CITY-BY-STATE

NORTH CAROLINA REPEATERS

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	N	A
AHOSKIE	WA4ZGQ	146.31	146.91	N	PA
ALBEMARLE	K4OGB	146.385	146.985	N	
AQUADALE	WA4CHZ			N	C
ASHEBORO	KJ4AV	147.855	147.255	*	PAL
ASHEVILLE	WA4QCO	146.235	146.835	*	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	*	
ASHVL/SPIVEY MT	W4MOE	146.31	146.91	*	A
BENSON	AK4H	147.87	147.27	N	PA
BOONE/RICH MTN	KU4V	147.96	147.36	*	
BREVARD/RICH MTN	WB4CJS	147.735	147.135	*	A
BURGAW	W4DLH	146.34	146.94	N	EA
BURLINGTON	K4ITL	144.71	145.31	N	PL
BURLINGTON	WB4ZIN	146.07	146.67	N	A
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	N4YN	147.975	147.375	N	A
CARTHAGE	W4NIW	147.84	147.24	*	
CHARLOTTE	W4BFB	144.63	145.23	N	
CHARLOTTE	W4BFB	144.69	145.29	N	A
CHARLOTTE	WA4AOS	144.75	145.35	N	L
CHARLOTTE	W4BFB	146.34	146.94	N	A
CHARLOTTE	W4CQ	146.46	147.06	N	A
CHARLOTTE	WD4PLY	147.99	147.39	N	PA
CHARLOTTE/RTTY	W4BFB	146.175	146.775	N	R
CHERRY MT	W4TMT	146.07	146.67	N	
CLINTON	WA4LZD	146.19	146.79	N	
CONCORD/KANNAP.	K4CEB	146.055	146.655	*	PA
CROWDERS MT	WD4PLY	144.85	145.45	N	
DUNN	N4CID	146.10	146.70	*	PA
DURHAM	WA4WTX	144.85	145.45	*	AL
DURHAM	WA4BFT	146.34	146.94	N	A
DURHAM	WD4LDB	147.96	147.36	N	C
EDEN/MAYODAN	WA4ACP	147.84	147.24	N	O
EDEN/STONEVILLE	WA4QBG	147.99	147.39	*	
ELIZABETH CITY	WA4VTX	146.055	146.655	N	A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
FAYETTEVILLE	N4EWG	146.205	146.805	*	
FAYETTEVILLE	WA4FLR	146.445	147.045	*	CR
FAYVLLE/CFARS	WB4YZF	146.31	146.91	*	
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	*	
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	W4ZCZ	144.89	145.49	*	
FRANKLIN	W4GHZ	147.84	147.24	*	
GAST/SPCR MT	W4REW	147.72	147.12	N	A
GASTONIA	K4NOQ	146.205	146.805	*	PA
GIBSONVILLE	WD4FTB	147.72	147.12	*	A
GOLD HILL/GBO	N4AZM	144.65	145.25	N	A
GOLDSBORO	K4CYP	146.25	146.85	*	A
GREENSBORO	K4SNI	146.01	146.61	*	A
GREENSBORO	WA4MSS	146.16	146.76	N	
GREENSBORO	W4GG	147.63	147.03	*	PA
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENVILLE	WA4DAN	144.75	145.35	*	L
GREENVILLE	K4ROK	147.975	147.375	*	
GREENVL/ESTN NC	W4GDF	147.69	147.09	*	
GRIFTON	W4NBR	146.085	146.685	*	
HALIFAX	AA4SJ	146.07	146.67	N	A
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW M	WA4KNI	144.67	145.27	*	A
HENDSVL/PINCK MT	WA4KNI	147.855	147.255	*	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	*	
HIGH POINT	N4XO	144.81	145.41	N	AO
HIGH POINT	N4LDK	146.40	147.00	*	LA
HIGH POINT	KB4BPV	147.435	146.835	*	PA
HIGH POINT	KJ4RT	147.765	147.165	*	PA
HILLSBOROUGH	WA4WTX	147.825	147.225	*	AL
JACKSONVILLE	WD4FVO	146.40	147.00	*	PA
JACKSONVILLE	WR4ATW	147.90	147.30	N	
JEFFERSON	W4YJG	147.90	147.30	*	A
LARNBRG/SCOTLAND	K4QWK	146.025	146.625	*	
LENOIR/HIBRITN	KN4K	147.93	147.33	*	
LEWISVILLE	N4GGK	144.61	145.21	N	PA
LEXINGTON	K4IZM	146.31	146.91	*	PA
LK NORMN/CLT	WB4KPF	147.615	147.015	N	
LUMBERTON	W4NHV	147.90	147.30	*	EA
LUMBERTON	WV4Z	147.96	147.36	*	
MACO	WA4LED	147.66	147.06	N	
MADISON	KA4YFF	146.295	146.895	N	
MAGGIE VALLEY	W4HCY	147.405	146.805	N	
MANTEO/WANCHESE	W4ACY	146.34	146.94	*	
MARION	K4GHH	147.705	147.105	*	
MAYODAN	WA4ACP	144.69	145.29	N	
MILLERS CREEK	N4GGN	146.115	146.715	*	A
MONROE	KF4NJ	144.79	145.39	*	A
MONROE/UCARS	K4JCK	147.705	147.105	N	A
MORENTN/HI PK	WB4UDS	144.55	145.15	N	
MORGANTON	K4VLY	147.75	147.15	*	
MT AIRY	WA4ZAS	146.37	146.97	N	EA
MT AIRY-RTTY	WA4ZAS	146.34	146.94	N	R
MT AIRY/TRNR MT	KD4J	144.73	145.33	N	A
MT MITCHELL	WA4BVW	144.59	145.19	*	
MURPHY	KC4WB	147.795	147.195	N	
N. WILKESBORO	N4AGN	144.77	145.37	*	PA
NAGS HEAD/BODIE	N4JXG	146.235	146.835	*	PA
NEW BERN	WD4JMS	146.01	146.61	*	A
NEWPORT	K4GRW	144.85	145.45	N	AL
NEWTON	WD4JWO	144.57	145.17	N	
OLD FORT	KA4ROZ	146.385	146.985	N	
OXFORD	N4EKK	144.57	145.17	N	PA
RALEIGH	N4BEA	144.67	145.27	N	PAL
RALEIGH	N4CBI	144.89	145.49	N	
RALEIGH	W4DW	146.04	146.64	*	
RALEIGH	K4BWC	146.13	146.73	*	PA
RALEIGH	K4ITL	146.28	146.88	*	L
RALEIGH	K4ITL	147.75	147.15	*	PA
RANDLEMAN/GBO	WB4GBI	144.55	145.15	*	
REIDSVILLE	K4YFT	146.25	146.85	N	
ROANOKE RAPIDS	K4ITL	144.71	145.31	*	CL
ROANOKE RAPIDS	WA4DTS	147.63	147.03	N	
ROARING GAP	WB4PZA	146.22	146.82	*	
ROB/JOANNA BLD	WD4CNS	146.445	147.045	N	
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	K4EWL	147.72	147.12	*	PA
SALISBURY	W4EXU	146.13	146.73	*	PA
SANFORD	WB4EJJ	147.78	147.18	N	A
SAURATOWN MT	W4RXG	144.51	145.11	*	R
SAURATOWN MT	WA4GIC	144.87	145.47	*	
SAURATOWN MT	N4LDK	146.19	146.79	*	PA
SHALLOTTE	K4PPD	144.69	145.29	*	
SHELBY	W4NYR	146.28	146.88	N	
SHELBY	W4NYR	147.945	147.345	N	PA
SMITHFIELD	KD4JQ	146.37	146.97	*	
SMITHFIELD	W4MKL	147.99	147.39	N	
SPARTA/GREEN MT	K4ITL	144.83	145.43	*	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685	*	
STATSVL/ASBRY MT	WA4JRL	147.645	147.045	N	
SWANSBORO	KO4S	146.16	146.76	*	
TRENTON	K4ITL	144.61	145.21	*	L
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315	*	
WADESBORO	WA4IAT	146.235	146.835	N	
WASHINGTON	WA4TEP	147.945	147.345	N	
WAXHAW	WB4OOA	146.295	146.895	N	PA
WAXHAW	WA4ZRS	147.465	146.865	*	A
WAYNESVILLE	N4SM	147.87	147.27	*	PA
WHITEVILLE	K4MSD	147.81	147.21	*	
WILLIAMSTON	KA4KNU	144.81	145.41	*	PA
WILMINGTON	W4VNK	146.13	146.73	*	PA
WILMINGTON	K4GMP	146.22	146.82	*	L
WILMINGTON	N4CTJ	147.78	147.18	N	A
WILSON	WB4THL	146.16	146.76	*	
WINSTON-SALEM	WA4GIC	146.04	146.64	*	AL

220 MHZ

ASHEVILLE	NC4N	223.00	224.60	N	
ASHVL/MT PISGAH	WA4BVW	222.34	223.94	*	
CHARLT/MINT HL	KE4ZC	222.80	224.40	N	
CHERRYVILLE	WB4UDS	223.36	224.96	N	
FAYETTEVILLE	W4EHF	222.42	224.02	*	
GOLDSBORO	WB3JVX	223.36	224.96	*	EAC
GREENSBORO	WB4IKY	223.22	224.82	*	A
GRIFTON	WA4DAN	223.24	224.84	*	C

DISTRIBUTION OF REPEATERS BY FREQUENCY

	KOG	MEMPHIS	TN
	LSP	ABINGTON	VA
	POD	LEXNGTN/COLE MT	VA
	LSP	NORTN/HGH KB	VA
2.03 /3.03	DTS	ROANOKE RAPIDS	NC
2.05 /3.05	UPC	ATLANTA/SWEAT MT	GA
	HSN	COPE	SC
2.07 /3.07	ODA	LINEVILLE(AL)	GA
	DAP	ROCKY MOUNT	NC
	NNN	LOUISA	VA
2.09 /3.09	MPW	SANDY SPR/ATL	GA
2.13 /3.13	KIN	PERRY	GA
	CCF	ALEXANDRIA	VA
	GJG	DANVILLE(DCC)	VA
2.15 /3.15	GQH	COLUMBIA	SC
	IOB	KNXVL/ENG MT	TN
	DBB	BEDFORD/THAX MT	VA
2.17 /3.17	RET	ST MARYS/BENS R	WV
2.19 /3.19	UCE	COOKEVILLE	TN
2.23 /3.23	ZKL	GUTHRIE	EKY
	NNE	GUTHRIE (TN/KY)	TN
2.25 /3.25	YON	KNOXVILLE	TN
	FJ	RIDGEWAY	VA
	DBB	ROANOKE	VA
2.27 /3.27	DRL	MEM/FISHERVILLE	TN
2.33 /3.33	EHV	SAPPHIRE	NC
2.41 /3.41	YXY	PICKENS	SC
2.43 /3.43	B	RICHMOND	VA
2.45 /3.45	MPM	FLAT GAP	EKY
	KWP	GALLATIN	TN
2.47 /3.47	MDW	HICKORY	NC
2.55 /3.55	JEH	CONYERS	GA
2.03 /3.63	JKA	ST ALBANS/COAL	WV
2.06 /3.66	JYR	DANVILLE/MADSN	WV
2.67 /3.67	WRS	STATESVILLE	NC
	TAG	HICKORY VALLEY	TN
2.09 /3.69	SVR	HERNSHAW/BEE MT	WV
2.12 /3.72	CDE	RAND	WV

MORE NORTH CAROLINA REPEATERS

HENDSVL/BERWLW M	WA4KNI	222.64	224.24	★	
HICKORY	WA4MDW	222.42	224.02	★	
HIGH POINT	K4AZA	222.32	223.92	★	LA
HILLSBOROUGH	WA4WTX	222.34	223.94	★	L
LENOIR/HIBRITN	KN4K	222.56	224.16	N	
LINWOOD	KA4HUV	222.38	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	N	
LOCUST	WA4ZIA	222.40	224.00		PAL
LUMBERTON	WB4WOR	222.54	224.14	N	
MARSHALL	KA4YTO	222.76	224.36	N	
MORGANTON	WB4PML	223.20	224.80	★	
MT MITCHELL	WA4BVW	222.94	224.54	★	
MT. TOXAWAY	K4MSK	223.12	224.72	N	
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	NF4C	222.36	223.96	★	
SALISBURY	W4EXU	223.16	224.76	★	
SAURATOWN MT	W4RXG	223.10	224.70	★	R
SAURATOWN MT	W4RXG	223.28	224.88	★	
STATESVILLE	WA4PVI	222.70	224.30	N	
WINSTON-SALEM	WA4YHH	223.04	224.64	★	PA

440 MHZ

ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHARLOTTE	W4BFB	449.60	444.60	N	
CHARLOTTE	W4CQ	449.85	444.85	N	
DURHAM	WA4WTX	449.10	444.10	★	AL
EDEN	WA4ACP	447.10	442.10	N	
FAYETTEVILLE	KB4ZW	449.40	444.40	N	
FAYETTEVILLE	KB4ZW	449.90	444.90	N	P
GOLDSBORO	WB3JVX	448.05	443.05	★	EA
GREENSBORO	WD4PQZ	448.50	443.50	★	
GREENVILLE	AI4J	449.80	444.80	N	
HENDSVL/BERWLW M	WA4KNI	449.25	444.25	★	
HICKORY	K4JEQ	449.00	444.00	★	
HIGH POINT	K4AZA	447.90	442.90	★	L
HIGH POINT	N4LXW	448.70	443.70	N	
LEWISVILLE	N4GGK	439.25	426.25	N	V
LOCUST	WA4LBT	448.70	443.70	★	L
MORGANTON	WB4PML	447.05	442.05	★	
MT AIRY/FSH PK	KF4UY	449.80	444.80	★	
MT MITCHELL	N4DWU	448.60	443.60	★	
N. WILKESBORO	N4GGN	448.35	444.35	N	
NEW BERN	WA4VBC	449.90	444.90	★	
RALEIGH	N4BEA	447.15	442.15	N	L
RALEIGH	WA1WXL	449.95	444.95	★	C
ROARING GAP	KC4XE	448.55	443.55	★	L
ROCKY MOUNT	N4JEH	449.70	444.70	★	PA
SALISBURY	W4EXU	449.65	444.65	★	EA
SAURATOWN MT	K4AZA	439.25	421.25	★	
SAURATOWN MT	N4GGC	448.10	443.10	★	
SAURATOWN MT	WA4GIC	449.975	444.975	★	C
SHELBY	W4NYR	439.25	427.25	N	VPA
WILLIAMSTON	KA4KNU	449.65	444.65	N	
WILMINGTON	KB4BR	449.70	444.70	N	
WILMINGTON	K4GMP	449.85	444.85	★	C
WILSON	NE4J	449.90	444.90	★	
WOODLEAF	KB4KQI	448.30	443.30	★	RB

10 METERS

EDEN	WA4ACP	29.56	29.66	N	
WILKESBORO	KC4XE	29.52	29.62	★	L

6 METERS

HENDERSONVILLE	WB4YAO	52.01	53.01	N	
HENDERSONVILLE	WB4YAO	52.525	52.525	N	RB
HICKORY	WA4MDW	52.47	53.47	★	
HIGH POINT	K4AZA	52.525	52.525	N	RB
NEWPORT	K4GRW	52.01	53.01	N	P
ROANOKE RAPIDS	WA4DTS	52.03	53.03	N	
ROCKY MOUNT	KA4DAP	52.07	53.07	N	P
SAPPHIRE	W4EHV	52.33	53.33	N	C
STATESVILLE	WA4WRS	52.67	53.67	N	

920 MHZ

LEXINGTON	W4PAR	908.00	920.00	★	P
LEXINGTON	W4PAR	909.00	921.00	★	P

PACKET

CHARLOTTE	W4BFB-1	145.01	N	K
CHERRY MTN	WB4RDL-1	145.01	N	K
COLFAX	KE4TH-1	145.07	N	K
CONCORD	K4CEB-1	145.05	★	K
GOLDSBORO	K4CYP-1	145.01	N	K
GREENVILLE	WD4JPQ-1	145.01	★	K
RALEIGH	K4ITL-1	145.01	N	K
RALEIGH	K4BWC-1	145.01	★	K
SAURATOWN MT	W4RXG-1	145.01	★	K
SPIVEY MTN	KB4OKW-1	145.01	N	K

VIRGINIA REPEATERS

2 METERS

ACCOMAC	WA4TVS	147.855	147.255	★	PA
ALEXANDRIA	N4FSC	144.71	145.31	M	PA
ALEXANDRIA	WD4PDP	146.055	146.655	M	PA
ALEXANDRIA	W4HFH	147.915	147.315	M	L
ALTAVISTA	WA4ISI	146.055	146.655	★	A
ARLINGTON	N4EFJ	144.87	145.47	M	
ARLINGTON	WA4YVM	146.445	147.045	M	T
BARREN SPRINGS	K4HZS	146.07	146.67	★	
BEDFD/APL ORCH	WB4DBB	144.63	145.23	★	
BEDFORD	WB4JBJ	147.705	147.105	★	LRPA
BLACKSBURG	AB9I	146.115	146.715	N	
BLACKSTONE	W4AXH	146.31	146.91	★	P
BLAND	N4AZJ	144.75	145.35	★	PA
BLUEFIELD	W8MOP	144.89	145.49	N	A
BRISTOL	WD4CYZ	146.28	146.88	★	
BRUMLEY MT	K4LSP	146.01	146.61	N	
CASTLEWOOD	KA4JNC	144.65	145.25	N	C
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	★	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	★	
CHESAPEAKE	K4NDH	144.69	145.29	N	EA
CHESAPEAKE	N4GSP	146.01	146.61	★	
CHESAPEAKE	N4SD	146.19	146.79	★	A
CHESTERFIELD	KA4CBB	147.96	147.36	★	
CHESTERFLD CO	WA4ECM	147.66	147.06	★	A
COVINGTON	WA4HTI	146.205	146.805	N	
CULPEPPER	N4FAF	147.72	147.12	M	
DANVILLE	K4YZR	147.95	147.35	N	NB
DANVILLE(DCC)	WB4GJG	146.325	146.925	★	
DANVILLE/WHT OAK	K4WQS	146.10	146.70	N	
DUFFLD/POWLL MT	KA4BHH	146.10	146.70	★	
FAIRFAX	W4LBL	146.19	146.79	M	PA
FALLS CHURCH	W4AQD	144.75	145.35	M	T
FARMVILLE	WA4QQI	144.73	145.33	★	
FINCASTLE	W4WIC	146.04	146.64	★	
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	M	
GALAX	WA4ZIV	144.79	145.39	N	
GALAX/BRIRP MT	N4VL	147.69	147.09	★	A
GALAX/LKOUT MT	N4VL	144.53	145.13	★	EA
GLOUCESTER	KA2IMI	144.77	145.37	★	
GRUNDY	K4HWQ	147.92	147.32	N	ANB
GRUNDY/BIG A MT	WD4DCX	147.855	147.255	N	
GUM SPRING	KB4GX	147.87	147.27	N	
HAMPTON	K4DHO	146.13	146.73	★	PA
HAMPTON	K4UMI	146.34	146.94	N	T
HAZEL MT	WD4CYZ	146.235	146.835	★	
HILLSVILLE	WD4BTJ	147.975	147.375	N	A
JONESVILLE	WA4OVC	146.31	146.91	★	
KILMARNOCK	W2MS	144.61	145.21	N	A
LEBANON	NZ4B	144.61	145.21	N	C
LEXINGTON	KI4ZR	146.07	146.67	N	A
LEXINGTON	KI4ZR	147.90	147.30	★	
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N	
LYNCHBURG	W4WWQ	146.01	146.61	N	
LYNCHBURG	K4STE	146.16	146.76	N	A
LYNCHBURG	AB4M	147.43	144.93	N	NB
LYNCHBURG	WA4RTS	147.795	147.195	N	
LYNCHBURG	KB4ILD	147.975	147.375	N	PA
MADISON	N4AJO	147.99	147.39	M	
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	WA4FPM	146.37	146.97	★	PA
MARION	N4BIW	146.04	146.64	★	L
MARTINSVILLE	AB4L	147.885	147.285	★	
MCLEAN	WD4IWG	147.81	147.21	M	R
MT. LK/BALD KNB	K4TUE	146.31	146.91	N	O
NEW MARKET	K4AVW	146.025	146.625	★	
NEWPORT NEWS	WA4OHX	144.89	145.49	N	PA
NEWPORT NEWS	WB4CTF	147.765	147.165	★	PA
NORFOLK	NE4D	146.10	146.70	★	EA
ONEIDA PEAK/BLF	KD8MZ	146.355	146.955	★	PAL
PEARISBURG	N4AZJ	147.735	147.135	★	

CVRA-SERA REPEATER SYMBOLS

★	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

MORE VIRGINIA REPEATERS

PETERSBURG	K4ARO	144.55	145.15	*	
PETERSBURG	N4KAF	147.78	147.18	N	
PETERSBURG	K4ARO	147.99	147.39	*	
PKS KB/PULASKI	KT4Z	147.78	147.18	N	PA
PORTSMOUTH	N4MG	146.25	146.85	*	
RADFORD	KC4WA	147.645	147.045	*	
RICHMOND	K4YPE	144.51	145.11	*	A
RICHMOND	NB4B	144.59	145.19	*	
RICHMOND	W4SQT	144.83	145.43	*	PA
RICHMOND	WB4QEY	146.04	146.64	*	PA
RICHMOND	WA4ECM	146.235	146.835	N	
RICHMOND	WA4ZBE	146.28	146.88	*	EA
RICHMOND	W4ZA	146.34	146.94	*	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	*	
ROANOKE	WB4QET	146.34	146.94	N	A
ROANOKE/POOR MT	WB4QOJ	146.145	146.745	N	LPA
ROANOKE/POOR MT	W4CA	146.385	146.985	*	
SALEM	W4PDL	146.28	146.88	N	
SOUTH HILL	N4OKH	147.84	147.24	N	
STAUNTON	W4XD	146.10	146.70	*	
STAUNTON	WA4ZBP	146.25	146.85	*	
STAUNTON	W4WRN	146.37	146.97	N	EA
STAUNTON/EL. KB	W4WRN	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WA4HMT	146.40	147.00	N	PA
TAZEWELL	WA4QKH	147.75	147.15	N	
TYSONS CORNER	WB4FMD	146.31	146.91	M	PA
VIENNA	K4HTA	146.085	146.685	M	
VIRGINIA BEACH	WA4KXV	146.295	146.895	*	
VIRGINIA BEACH	WA4KXV	146.37	146.97	*	PA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
VIRGINIA BEACH	W4NV	147.975	147.375	*	
VOLENS	WD4LBM	146.46	147.06	*	
WARRENTON	WB4FJT	147.765	147.165	M	
WARSAW	KA4ZIP	147.93	147.33	*	
WAYNESBORO	W4BLD	147.63	147.03	*	
WAYNSBR/BEAR DEN	W4PNT	147.675	147.075	*	L
WILLIAMSBURG	W4NTG	146.07	146.67	*	
WINCH/BLUEMONT	WA4TSC	147.90	147.30	M	
WINCHESTER	W4RKC	146.22	146.82	*	
WISE/HIGH KNOB	K4AXO	147.81	147.21	N	
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHE/SAND MTN	KC4VR	147.945	147.345	*	AL
WYTHEVILLE	WA4EMS	146.175	146.775	*	
YORKTOWN	K4UMI	144.63	145.23	N	P
YORKTOWN	WD4SDC	147.825	147.225	N	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	L
BEDFORD	N4PLV	223.24	224.84	N	
DAN/WHT OAK	K4OAK	223.16	224.76	N	
DANVILLE	K4AUG	222.78	224.38	*	
FAIRFAX	WB4YHD	222.50	224.10	M	L
FALLS CHURCH	N4CHP	223.38	224.98	M	PA
FRIES/SAND MTN	WA4DFH	222.74	224.34	*	
LYNCHBURG	AB4M	222.68	224.28	N	
NEWPORT NEWS	KB4UHA	223.26	224.86	N	
NORTON/HIGH KB	WD4GSM	222.82	224.42	N	C
PETERSBURG	K4ARO	222.40	224.00	*	
ROANOKE	WB4DBB	222.50	224.10	*	L
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	*	
TAZEWELL	WA4QKH	222.66	224.26	N	P
TYSONS CORNER	WD4KHP	223.12	224.72	N	PL

440 MHZ

AFTON MT	W4BLD	449.05	444.05	*	
ALEXANDRIA	W4HFH	449.60	444.60	M	
ALTAVISTA	WA4ISI	449.425	444.425	*	L
BEDFD/APL ORCH	WB4DBB	449.35	444.35	*	L
BLUEFIELD	KD8MZ	449.625	444.625	*	LPA
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	*	
CHESAPEAKE	N4EVG	448.90	443.90	*	A
COVINGTON	WA4HTI	447.25	442.25	N	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
FINCASTLE	W4WIC	448.75	443.75	*	
HAMPTON	K4UMI	448.65	443.65	N	
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N	
LYNCHBURG	K4HEX	449.50	444.50	N	
MANASSAS	WD4JCE	444.225	449.225	M	L
MANASSAS	WB3EAQ	448.30	443.80	M	
MARION	N4BIW	447.00	442.00	*	PL
NORFOLK	W4WIN	439.25	426.25	N	V
NORTHWEST/SE VA	KR4K	448.80	443.80	N	
OILVILLE	KB4MIC	449.80	444.80	N	P
PETERSBURG	K4ARO	449.85	444.85	*	
RICHMOND	K4ARO	449.65	444.65	*	
ROANOKE	WB4DBB	446.65	446.65	*	RBL
ROANOKE	N4HON	447.70	442.70	N	
ROANOKE/POOR MT	W4CA	447.50	442.50	*	
SPRINGFIELD	AA4VA	449.15	444.15	M	
STAUNTON	W4XD	449.825	444.825	*	
STAUNTON	W4WRN	449.95	444.95	N	
TYSONS CORNER	WB6GUS	448.50	443.50	M	
TYSONS CORNER	K4JYF	449.75	444.75	M	
VIRGINIA BEACH	WD4SDC	449.00	444.00	N	P
VIRGINIA BEACH	WA4KXV	449.95	444.95	*	
WAYNESBORO	WA4EZA	449.20	444.20	N	
WAYNESBORO	W4BLD	449.30	444.30	*	TPA
WILLIAMSBURG	W4NTG	448.95	443.95	M	
WINCH/BLUEMONT	WA4TSC	444.925	449.925	N	NB
WINCHESTER	W3CSG	447.00	442.00	M	
WOODBRIDGE	WB4FQR	444.90	449.90	M	

10 METERS

CHARLOTTESVILLE	WA4TFZ	29.60	29.60	*	RB
NEWPORT NEWS	WB4CTF	29.60	29.60	*	RB
RICHMOND	N4MXT	29.52	29.62	N	P
STERLING	KD4DN	29.58	29.68	M	P

6 METERS

ABINGTON	K4LSP	52.01	53.01	M	L
ALEXANDRIA	WA4CCF	52.13	53.13	M	L
BEDFORD/THAX MT	WB4DBB	52.15	53.15	*	
CHARLOTTESVILLE	WA4TFZ	52.525	52.525	N	RB
DANVILLE(DCC)	WB4GJG	52.13	53.13	*	
FAIRFAX	KA4DCS	52.58	52.48	M	NB
FAIRFAX STA	WD4KHP	52.64	52.84	N	NB
LEXNGTN/COLE MT	K4PQD	52.01	53.01	N	L
LOUISA	KA4NNN	52.07	53.07	N	
NORTN/HIGH KB	K4LSP	52.01	53.01	N	
RICHMOND	NB4B	52.43	53.43	*	
RIDGEWAY	KE4FJ	52.25	53.25	N	
ROANOKE	WB4DBB	52.25	53.25	*	L

PACKET

ACCOMAC	KJ4AG-1	145.01	*	K
ACCOMAC	KJ4AG-2	145.03	*	K
BEAR DEN MT	W4BLD-1	145.01	*	K
BLUEFIELD	KD8MZ	145.01	*	K
CHARLOTTESVILLE	WA4TFZ-2	145.01	N	K
COVINGTON	WA4PGI-1	145.01	N	K
FORK MTN	WA4FRV-3	145.01	N	
FREDERICKSBURG	KB4OB-1	145.01	M	K
GARRISONVILLE	AA4PB-1	145.01	N	K
HAMPTON	K4UMI-1	145.01	N	K
HAMPTON	K4UMI-5	145.01	N	K
LYNCHBURG	K4LKQ-1	145.01	N	K
MIDDLEBURG	WA4TSC-1	145.01	N	K
ONEIDA	WB4BBF-2	145.01	*	K
PETERSBURG	K4ARO-1	145.01	*	K
RICHMOND	K4ARO-2	145.05	*	K
ROANOKE	N4FHL-1	145.01	N	K
STEPHENS CITY	W3CSG	145.01	N	K
VIRGINIA BEACH	WA4KXV-1	145.01	*	K
WASHINGTON, D.C.	WB4JFI-5	145.01	N	K
WOODBRIDGE	WB4FQR-4	145.01	N	K
WOODBRIDGE	KA4USE-1	145.07	N	K
WYTHE/SAND MTN	KC4VR-1	145.01	*	K

SOUTH CAROLINA REPEATERS

2 METERS

AIKEN	N4ADM	147.885	147.285	N	
ANDERSON	N4SZ	146.37	146.97	*	PA
ANDERSON/SAS MT	W4FVV	146.19	146.79	*	
BAMBERG	WA4DFP	144.73	145.33	N	
BARNWELL	WA4FOF	147.63	147.03	*	
BIG KNOB/GREY CT	KB4YF	146.265	146.865	*	
BRKSVLLE/MYTL BE	W4DCD	147.885	147.285	*	A
CHARLESTON	WB4URP	144.65	145.25	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	W4IVE	146.19	146.79	N	
CHARLESTON	WB4LET	147.87	147.27	*	PA
CHARLESTON	K4LWS	147.90	147.30	N	A
CHELSEA	KB4GY	146.01	146.61	N	
CHERAW	KA4ABW	147.735	147.135	N	PA
CHESTER	KB4FJX	146.025	146.625	N	P
COLUMBIA	WB4QJF	144.57	145.17	N	
COLUMBIA	N4HWU	144.83	145.43	*	PA
COLUMBIA	WB4NEP	146.115	146.715	N	PA
COLUMBIA	K4AVU	146.28	146.88	N	
COLUMBIA	WA4KIO	147.93	147.33	N	

This CVRA-SERA Official Repeater Index Is Correct As of July 22, 1987

MORE SOUTH CAROLINA REPEATERS

DILLON/PEE DEE	NN4N	146.145	146.745	★	EA
FLORENCE	W4ULH	146.25	146.85	N	A
FLORENCE	WA4ISM	146.37	146.97	★	PA
FT JACKSON	WB4OCB	146.16	146.76	N	
FT MILL/CAROWND	AA4SC	147.78	147.18	N	
GASTON	WB4NEP	144.61	145.21	N	PA
GEORGETOWN	WD4DMI	147.975	147.375	N	
GOOSE CREEK	W4NAT	147.78	147.18	N	
GREENVILLE	W4IQQ	146.34	146.94	N	
GREENVILLE	K4LEO	147.975	147.375	★	T
GREENWOOD	KB4YF	147.765	147.165	★	A
GREENWOOD/HODGES	KB4CS	144.53	145.13	N	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	★	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	★	PA
HILTON HEAD	N1BAL	147.84	147.24	N	
INMAN	WD8OXE	144.87	145.47	N	
LAKE MARION	W4DTW	147.825	147.225	★	A
LANCASTER	W4PAX	146.10	146.70	★	
LANCASTER	WB4BGF	147.84	147.24	N	
LEXINGTON/LIT MT	KA4FEC	147.99	147.39	★	
LITTLE MT.	K4AVU	147.81	147.21	N	
MARION	W4YLT	146.40	147.00	N	EA
MONCKS CORNER	KA4BJM	147.75	147.15	N	
MT PLEASANT	K4ESG	146.385	146.985	N	PA
MT PLEASANT	K4LWS	147.90	147.30	N	PA
MYRTLE BEACH	WD4JMT	144.51	145.11	★	P
MYRTLE BEACH	WD4JMT	146.01	146.61	★	PA
MYRTLE BEACH	WA4YGE	147.72	147.12	N	
MYRTLE BEACH, N	WA4JYR	147.63	147.03	N	PA
N. AUGUSTA	K4FKJ	146.13	146.73	★	
NEWBERRY	KB4CO	146.085	146.685	N	
PICKENS	WB4YXZ	146.40	147.00	★	
RKY RDG/WALLACE	KA4ABW	144.89	145.49	★	A
ROCK HILL	KA4RFA	144.71	145.31	N	LPA
ROCK HILL	N4CWZ	146.325	146.925	N	PA
ROCK HILL	K4YTZ	146.43	147.03	★	PA
ROCKY SPUR	KS4I	147.885	147.285	N	
SENECA/LONG MT	WA4JRJ	147.87	147.27	N	
SIMPSONVILLE	WD4BJY	146.13	146.73	★	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
SPARTANBURG	WD8OXE	147.69	147.09	N	PA
SUMMERVILLE	K7ZGW	147.96	147.36	N	EAP
SUMTER	WS4P	146.04	146.64	★	
SUMTER	WA4UMU	147.615	147.015	★	EA
SUMTER	W4VFR	147.66	147.06	★	A
WHITE HALL	W4BWZ	146.31	146.91	N	

220 MHZ

COLUMBIA	N4EOY	223.30	224.90	★	RB
EASLEY/SASFRS MT	AJ4N	222.46	224.06		
GREER	W4ILY	222.38	223.98	N	PA
LITTLE MT	KA4FEC	222.52	224.12	★	
PICKENS/CSRS HD	WB4QHF	222.54	224.14	★	PA

440 MHZ

ANDERSON/SAS MT	WD4BUH	449.925	444.925	N	
CAESARS HEAD	WB4LZQ	448.875	443.875	N	
COLUMBIA	KC4YI	449.10	444.10	★	
LEXINGTON	N4GUP	439.25	421.25	★	V
MT PLEASANT	N4DRU	449.70	444.70	N	
PICKENS/CSRS HD	WA6WAY	447.00	442.00	★	
ROCK HILL	KA4RFA	449.75	444.75	N	LPA
SUMMERVILLE	WA4HNK	448.80	443.80	★	
SUMTER	WA4UMU	439.25	423.25	★	V

6 METERS

COLUMBIA	N4GQH	52.15	53.15	N	
COPE	N4HSN	52.05	53.05	N	
PICKENS	WB4YXY	52.41	53.41	★	

PACKET

ANDERSON	W4FX-1	145.01	★	K
CHARLESTON	N4LYF-1	145.01	N	
COLUMBIA	N4EOY-1	145.01	★	K
COLUMBIA	N4HWU-1	145.03	★	K
CONWAY	WA4TKM-1	145.01	N	K
FLORENCE	W4ULH-1	145.01	N	K
LANCASTER	K4WJR-1	145.01	N	K
SUMTER	WS4P-1	145.01	★	K

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TENNESSEE REPEATERS

2 METERS

ALAMO	WB4EDS	147.735	147.135	N	
ATHENS	WB4GRC	144.71	145.31	N	
BENTON	K4SIR	144.85	145.45	N	
BLOUNTVILLE	WA4KMG	147.60	147.00	★	
BRISTOL	K4ILW	146.07	146.67	★	A
BRISTOL	WD4CYZ	146.28	146.88	★	
BRISTOL/HLSTN MT	K4LSP	146.16	146.76	N	
BROWNSVILLE	WA4ABU	146.055	146.655	★	
CHATT/SIGNAL MT	KW4Z	146.055	146.655	★	
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	N	PA
CHATTANOOGA	K4VCM	144.69	145.29	★	
CHATTANOOGA	KB4TZ	144.79	145.39	★	A
CHATTANOOGA	K4CMY	146.01	146.61	★	
CHATTANOOGA	W4DSK	146.19	146.79	★	A
CHATTANOOGA-RTTY	K4CMY	144.53	145.13	N	
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
CLARKSVILLE	AA4TA	147.99	147.39	★	C
COOKEVILLE	WA4UCE	144.83	145.43	N	A
COOKEVILLE	N4WS	147.81	147.21	N	PA
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	KE4RX	146.04	146.64	★	
CROSSVILLE	W4CV	147.93	147.33	N	
CUMBERLAND CTY	N4GMT	144.73	145.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.55	145.15	★	
DONELSON	WA4BZU	147.885	147.255	N	TPA
DYERSBURG	AA4HF	146.145	146.745	N	
ELZ/JC/HLST MT	WB4SQC	144.69	145.29	N	A
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	
FRANKLIN	WB4HCK	144.55	145.15	N	RB
GALLATIN	W4NIT	147.84	147.24	N	PA
GALLATIN	WA4YQC	147.87	147.27	N	PA
GRAY	WD4SBX	144.89	145.49	★	A
GREENEVILLE	K4EPC	144.79	145.39	★	
GREENEVILLE	WB4TUO	144.81	145.41	★	
GRNVLE/GRYSTN	WA4LYF	147.66	147.06	★	A
GTLBG/COVE MTN	WA4KJH	146.25	146.85	N	LEA
GUTHRIE (TN/KY)	KA4NNA	146.205	146.805	N	
HARRIMAN	WA4RHV	147.615	147.015	N	C
HENDERSONVILLE	WB4WZK	144.67	145.27	★	
HENDERSONVILLE	N4WF	147.945	147.345	N	
HERMITAGE	WB4DOR	144.79	145.39	★	
HICKORY VALLEY	KA5TAG	144.73	145.33	★	
HUMBOLDT	NQ4Y	144.75	145.35	N	
JACKSON	KF4SC	144.71	145.31	N	
JACKSON	W4WKZ	147.81	147.21	N	
JAMESTOWN	KE4JE	144.55	145.15	N	
JASPER	KD4XX	144.59	145.19	N	
JOHNSON CITY	W4ABR	146.19	146.79	N	
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97	★	PA
KNOXVILLE	WB4JSD	144.51	145.11	N	R
KNOXVILLE	K4KFD	144.61	145.21	N	A
KNOXVILLE	N4GRC	144.77	145.37	★	EA
KNOXVILLE	N4CKB	144.87	145.47	★	
KNOXVILLE	N4CKB	146.34	146.94	★	
KNOXVILLE	N4KAC	147.675	147.075	★	A
KNOXVILLE	W4BBB	147.90	147.30	★	
KNOXVL/SHARPS RG	WA4TEM	144.73	145.33	★	A
KNXVL/CROSS MT	KA4OAK	147.96	147.36	N	
KNXVL/ENG MT	WB4IOB	146.13	146.73	★	
LAFOLLETTE	KA4OAK	144.53	145.13	N	A
LAFOLLETTE/WMT	K4BGW	146.07	146.67	N	
LAKE CITY	WB4OAH	146.22	146.82	N	
LAVERNE	KJ4RA	144.63	145.23	★	
LEBANON	WB4DOR	144.59	145.19	★	
LEBANON	KE4VZ	146.13	146.73	N	PA
LENOIR CITY	KE4V	144.57	145.17	★	

CVRA-SERA REPEATER SYMBOLS

★	Full Member Supporter	T	Tone Access Repeater
D	Delinquent Membership	L	Linked Repeater
N	Non-Member SERA	K	Packet Operation
NB	Not On SERA Freq. Plan	R	Radioteletype Operation
M	T-MARC Terr. Repeater	V	Television (SSTV or ATV)
A	Autopatch (Open)	P	Proposed Repeater Coord.
PA	Private Autopatch	C	Under Construction
EA	Emergency Autopatch	O	Off the Air Temporarily
		RB	Remote Base System

NOTE: Some repeaters allow voice, as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for information. Digipeters within the Packet frequency spectrum are listed under PACKET. Repeaters with normal input/output (pairs) are listed in the regular FM repeater index and their operation of Packet is indicated with "K".

MORE TENNESSEE REPEATERS

LENOIR CITY	KB4PIO	146.085	146.685	N	C
LEXINGTON	WB4LGH	146.43	147.03	N	
MANCHESTER	W4UOT	146.10	146.70	*	A
MARTIN	WA4ZQX	146.025	146.625	*	
MCMINNVILLE	WA4CPJ	146.37	146.97	N	A
MCMINVL/SHT MT	W4KKO	144.89	145.49	*	
MEDINA	K4BEZ	146.37	146.97	*	A
MEM/FISHERVILLE	N4DRL	144.65	145.25	*	A
MEMPHIS	WA4VIP	144.81	145.41	N	
MEMPHIS	WA4KOG	144.89	145.49	N	
MEMPHIS	W4GYS	146.04	146.64	N	
MEMPHIS	W4UFT	146.10	146.70	N	
MEMPHIS	WB4DAZ	146.13	146.73	N	
MEMPHIS	K4FZJ	146.19	147.51	N	NB
MEMPHIS	W4BS	146.22	146.82	N	
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	N	A
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WA4MQQ	146.46	147.06	N	
MEMPHIS	W4ZJM	147.63	147.03	N	L
MEMPHIS	WB4DAZ	147.72	147.12	N	AT
MEMPHIS	WA5KUB	147.75	147.15	N	
MEMPHIS	WA4KOG	147.78	147.18	N	
MEMPHIS	WD4APK	147.84	147.24	N	
MEMPHIS	WA4ADT	147.90	147.30	N	
MEMPHIS	WB4MMI	147.96	147.36	N	
MILLINGTON/NB	W4ODR	146.43	147.03	N	L
MORRISTOWN	WD4PRQ	147.63	147.03	N	EA
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MT JULIET	WA4CBF	144.77	145.37	*	
NASHVILLE	N4AJS	144.65	145.25	N	
NASHVILLE	WD4FFM	144.69	145.29	N	
NASHVILLE	WD4JYD	144.75	145.35	N	
NASHVILLE	N4ARK	144.87	145.47	N	
NASHVILLE	WA4PCD	146.01	146.61	N	PA
NASHVILLE	WB4NTM	146.04	146.64	N	EA
NASHVILLE	W4PQP	146.16	146.76	*	
NASHVILLE	W4SQE	146.19	146.79	*	
NASHVILLE	WA4PCD	146.25	146.85	N	PA
NASHVILLE	WA4PCD	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30	*	
NASHVILLE	N4AJS	147.93	147.33	N	
NASHVILLE S.	WB4NTM	147.96	147.36	N	R
NASHVILLE S.W.	WB4NTM	146.07	146.67	N	EA
OAK RIDGE	W4SKH	146.28	146.88	N	
OAK RIDGE	W4SKH	146.37	146.97	N	A
OAK RIDGE	K4EAJ	147.72	147.12	N	L
OAK RIDGE	K4EAJ	147.75	147.15	N	R
PARIS	K4KLX	147.96	147.36	N	A
PETROS	KJ4SI	147.855	147.255	N	C
PIKEVILLE	K4MJM	147.885	147.285	*	
POLK CTY/OSWALD	WD4DES	147.78	147.18	*	
PULASKI/MUS MT	W4JVO	146.175	146.775	*	EA
PURYEAR	WA4CEX	147.765	147.165	*	
SAVANNAH	WB4DQU	146.31	146.91	N	
SEV/SHIELDS MT	N4CJX	144.67	145.27	N	
SHELBYVILLE	W4QEB	147.66	147.06	*	A
SHORT MTN	W4YXA	146.31	146.91	*	
SMYRNA	WB4LHO	144.57	145.17	*	PA
SPARTA/BON AIR	W4BSA	147.69	147.09	N	A
SPRING HILL	NW4E	144.85	145.45	N	A
STANTONVILLE	KF4VM	144.79	145.39	N	
UNION CITY	WA4YGM	146.10	146.70	*	
UNION CITY	WA4YGM	147.615	147.015	*	C
WAVERLY	NO4Q	146.085	146.685	*	
WINCHESTER	WB4UEW	146.22	146.82	*	

220 MHZ

CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	N	
CHATTANOOGA	K4VCM	223.18	224.78	*	A
CLARKSVILLE	KF4GP	222.34	223.94	N	
CLARKSVILLE	AA4TA	222.56	224.16	*	C
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	*	
GREENEVILLE	WB4NKM	223.34	224.94	*	A
HERMITAGE	WB4RAB	222.30	223.90	N	
HICKORY VALLEY	KA5TAG	222.58	224.18	*	
JOHNSON CITY	WA4UCI	223.18	224.78	N	C
KNOXVILLE	WA4YON	222.86	224.46	*	
KNOXVILLE	W4BBB	222.90	224.50	*	
KNOXVILLE	WA4TEM	223.26	224.86	*	C
MEM/FISHERVILLE	N4DRL	222.90	224.50	*	
MEMPHS/FRAYSER	W4ZJM	222.34	223.94	N	LO
MT. JULIET	KE4NP	222.66	224.26	N	
NASHVILLE	N4TB	222.42	224.02	N	
NASHVILLE	WB4UEX	222.48	224.08	N	
NASHVILLE	N4MEY	222.52	224.12	N	C
NASHVILLE	N4AWB	222.62	224.22	N	
NASHVILLE	KI4OG	222.84	224.44	*	

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
CHATT/SIGNAL MT	WA4ZOK	439.25	427.25	N	V
CHATTANOOGA	N4JSR	447.325	442.325	N	
CHATTANOOGA	WA4NFO	449.10	444.10	*	
ELIZ/HOLSTON MT	WB4BFS	449.75	444.75	N	
FAYETTEVILLE	KO4G	448.10	444.10	N	
FISHERVILLE	N4DRL	432.01	BEACON	N	O
FISHERVILLE	N4DDS	449.30	444.30	N	O
FRANKLIN	KA4IDB	448.85	443.85	N	
GALLATIN	WD4KWP	449.45	444.45	*	
GATLBG/COVE MT	WA4KJH	448.30	443.30	N	L
GREENEVILLE	WB4NKM	449.65	444.65	*	
HICKORY VALLEY	KA5TAG	448.20	443.20	*	
JACKSON	WA4BJY	447.20	442.20	N	
JACKSON	WB4EPG	447.80	442.80	N	A
JASPER	KD4XX	447.05	442.05	N	C
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	K4HXD	449.30	444.30	N	
KNOXVILLE	KB4KSL	449.50	444.50	*	
KNOXVILLE	KB4NK	449.60	444.60	*	
MEDINA	K4BEZ	447.05	442.05	N	AL
MEM/FISHERVILLE	N4DRL	449.30	444.30	*	
MEMPHIS	WA4KOG	444.40	449.40	N	NB
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	W4ZJM	448.00	443.00	N	O
MEMPHIS	WA4DOR	448.40	443.40	N	A
MEMPHIS	KA4JXT	449.10	444.10	N	
MEMPHIS	KA4IZF	449.50	444.50	N	A
MEMPHIS	WB4MMI	449.70	444.70	N	T
MEMPHIS	WD4APK	449.80	444.80	N	
MEMPHIS	WB4MMI	449.90	444.90	N	L
MEMPHIS	WB4KQQ	449.95	444.95	N	C
MILAN	WD4ABJ	447.10	442.10	N	
MORRISTOWN	KA4NEX	449.20	444.20	N	
MT JULIET	WA4PUB	448.05	443.05	N	
NASHVILLE	KI4OG	449.05	444.05	*	T
NASHVILLE	WB4NTM	449.15	444.15	N	C
NASHVILLE	WA4PCD	449.55	444.55	N	
NASHVILLE	W4AY	449.675	444.675	N	
NASHVILLE	WB4QES	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40	N	L
PARIS/GROVE HL	WA4WKS	448.50	443.50	N	
SMYRNA	N4FUD	449.25	444.25	N	

920 MHZ

HICKORY VALLEY	KA4TAG	907.10	919.10	*	
MEM/FISHERVILLE	N4DRL	909.10	921.10	*	

1270 MHZ

HICKORY VALLEY	KA5TAG	1271.20	1291.20	*	
MEM/FISHERVILLE	N4DRL	1271.10	1291.10	*	

10 METERS

DONELSON	WA4BZU	29.54	29.64	N	C
HICKORY VALLEY	KA5TAG	29.54	29.64	*	
KNXVL/ENG MT	WB4IOB	29.52	29.62	*	C
MEM/FISHERVILLE	N4DRL	29.58	29.68	*	
MEMPHIS/FRAYSER	W4ZJM	29.52	29.62	N	

6 METERS

CHATTANOOGA	WB4LRD	52.01	53.01	N	
COOKEVILLE	WA4UCE	52.19	53.19	N	
GALLATIN	WD4KWP	52.45	53.45	*	
GUTHRIE (TN/KY)	KA4NNE	52.23	53.23	N	
HICKORY VALLEY	KA5TAG	52.67	53.67	*	
KNOXVILLE	WA4YON	52.25	53.25	*	
KNXVL/ENG MT	WB4IOB	52.15	53.15	*	A
MEM/FISHERVILLE	N4DRL	52.27	53.27	*	C
MEMPHIS	WA4KOG	52.01	53.01	N	

PACKET

BRISTOL	WX4S-1		145.01	N	K
CHATTANOOGA	W4DSK-1		145.01	N	K
CROSSVILLE	N4LLD-1		145.01	N	K
GALLTN/MUSIC MT	W4PTZ-1		145.01	*	K
GREENEVILLE	K4VZZ-1		147.48	N	K
HORNBEAK	WA4VVX-6		145.01	N	K
JACKSON	WB7BOX-1		145.01	N	K
JACKSON	WA4VVX-7		145.01	N	K
KINGSPORT	N4NBX		145.04	N	K

KNOXVILLE	KC4OI	145.01	N	K	
KNOXVL/CROSS MT	WA4YON-1	145.01	N	K	
LOBOVILLE	WA4VVX-2	145.01	N	K	
MEMPHIS	AI5R	145.01	N	K	
MEMPHIS	WA4KQQ-1	145.01	N	K	
NASHVILLE	WA4KDC-2	145.01	N	K	
NASHVILLE	W4HHY	145.01	N	K	
OLIVER SPRINGS	KB4NK-1	145.01	N	K	
PIKEVILLE	K4MJM-1	145.01	*	K	
RIPLEY	WA4VVX-3	145.01	N	K	
ROCKWOOD	AA4KS-1	147.48	N	K	
SEWANEE	WD4CPF-1	145.01	N	K	
SHORT MT	W4YXA-1	145.01	*	K	
WINCHESTER	WD4CPF	145.01	N	K	
JACKSON	WB7BOX-2	221.11	N	K	
MEMPHIS	WA4KQQ	446.50	N	K	
NASHVILLE	WA4KDC	433.80	N	DL	
RIPLEY	WA4VVX-5	443.80	N	DL	
SEWANEE	WD4CPF-2	433.80	N	DL	
SHORT MTN	W4YXA	433.80	N	DL	
WAVERLY	WA4VVX-4	433.80	N	DL	

GEORGIA REPEATERS

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	N	
ADEL	KF4JF	144.63	145.23	N	
ALBANY	W4MM	144.55	145.15	N	L
ALBANY	W4MM	146.10	146.70	N	
ALBANY	W4MM	146.13	146.73	N	
ALBANY	W4MM	146.22	146.82	N	
ALBANY	W4MM	147.72	147.12	N	K
ALBANY	WB4TFW	147.75	147.15	*	
AMERICUS	K4VBH	147.87	147.27	N	
ASHBURN	KF4BI	147.885	147.285	*	
ATHENS	WA4BKF	146.145	146.745	*	A
ATHENS	K4TQU	147.975	147.375	N	
ATLANTA	K4DRQ	144.69	145.29	*	
ATLANTA	W4DOC	146.22	146.82	N	PA
ATLANTA	N4OD	146.37	146.97	*	
ATLANTA	WA4NNO	146.40	147.00	N	PA
ATLANTA	K4YSB	147.705	147.105	N	
ATLANTA	K4SMX	147.795	147.195	*	T
ATLANTA	WD4KDT	147.855	147.255	*	PAL
ATLANTA/AIRPORT	W4REI	147.63	147.03	N	
ATLANTA/BELL	W4PME	144.81	145.41	*	
ATLANTA/GA TECH	W4AQL	144.55	145.15	N	PA
ATLANTA/GPCO	WA4VBX	147.885	147.285	*	
ATLANTA/STONE MT	W4BOC	146.16	146.76	*	
ATLANTA/SWEAT MT	K4LCT	144.83	145.43	N	A
ATLANTA/SWEAT MT	N4CLA	144.87	145.47	*	EA
ATLANTA/SWEAT MT	KD4NC	146.13	146.73	*	K
ATLANTA/SWEAT MT	N4NEQ	147.94	147.34	N	NB
AUGUSTA	W4TUN	144.51	145.11	*	A
AUGUSTA	N4JA	144.89	145.49	*	
AUGUSTA	W4LWT	146.04	146.64	*	
AUGUSTA	AA4UA	146.235	146.835	*	A
AUGUSTA	KT4N	146.34	146.94	*	
AUGUSTA	NA4I	146.385	146.985	*	PA
AUGUSTA	NI4S	147.72	147.12	*	PA
AUGUSTA	N4BMA	147.78	147.18	*	RPA
BALDWIN	WD4NHW	147.78	147.18	*	A
BIRMINGHAM(AL)	N4IQT	144.59	145.19	*	
BRUNSWICK	K4TVE	146.13	146.73	N	
CAIRO	AA4RD	147.795	147.195	N	
CARROLLTON	W4FWD	146.04	146.64	N	A
CEDARTOWN	W4CMA	147.72	147.12	*	PA
CLEVELAND/LONG	K4FOW	146.31	146.91	N	
CLEVELAND/LONG	K4FOW	147.615	147.015	N	
COLUMBUS	KA4CEK	144.71	145.31	*	
COLUMBUS	W4FIZ	146.01	146.61	N	
COLUMBUS	N4AGO	146.28	146.88	N	
COLUMBUS-RTTY	K4ACH	144.77	145.37	N	R
CONYERS	WB4JEH	144.63	145.23	*	
CONYERS	KE4SG	147.81	147.21	N	PA
CORDELE	WA4RWS	144.89	145.49	*	
COVINGTON	WA4ASI	146.925	146.325	N	NB
CUMMING/SAWNEE	K4BYK	147.75	147.15	*	PAL
DALLAS	K4DVJ	146.25	146.85	N	
DALTON	KE4UJ	144.63	145.23	*	
DALTON	N4BZJ	144.65	145.25	*	
DALTON	N4BZJ	147.735	147.135	*	
DALTON	KE4LN	147.81	147.21	*	
DECATUR	W4VTA	144.51	145.11	*	EA
DECATUR	WB4CPL	144.75	145.35	*	
DOUGLAS	KB4TCU	147.765	147.165	N	
DOUGLASVILLE	KB4EO	147.96	147.36	N	A
DUBLIN	WA4HZX	147.96	147.36	N	
ELLIJAY	W4HHH	146.385	146.985	*	
FAYETTEVILLE	K4UWN	146.085	146.685	N	
FOLKSTON	K4DMK	146.19	146.79	N	
FOREST PARK	K4KQK	144.65	145.25	N	
FORSYTH	W4SPJ	147.315	147.915	N	
FORT PAYNE(AL)	WA4PJE	147.87	147.27	*	A
GAINESVILLE	W4NSO	146.07	146.67	*	A
GRIFFIN	K4HYB	144.79	145.39	*	PA
GRIFFIN	K4HYB	146.31	146.91	*	
HAMPTON	AC4P	146.235	146.835	N	
HARTWELL	KY4T	146.895	146.295	N	EA
HINESVILLE	WA7LZQ	147.60	147.00	N	P
IRWINTON	WB4NFG	147.84	147.24	N	
JASPER	KB4IZF	144.77	145.37	*	
JASPER	W4OOM	146.10	146.70	*	A
JASPER(AL)	WB4ACN	146.30	146.90	*	
JESUP	WA4EQL	146.07	146.67	N	
JONESBORO	WA4DIW	144.57	145.17	*	EA
JONESBORO	WA4OGE	144.73	145.33	N	
LAGRANGE	KO4R	146.25	146.85	*	EA
LAGRANGE	WB4BXO	147.93	147.33	*	EA
LANETT(AL)	K4DXZ	147.60	147.00	*	
LEEDS(AL)	N4IQT	146.08	146.68	*	
LINEVILLE(AL)	WB4VBA	144.83	145.43	*	
MACON	WB4OLL	144.83	145.43	N	
MACON	W4BKM	146.06	146.66	N	NB
MACON	K4ICT	147.66	147.06	*	T
MADISON	WB4DKY	146.265	146.865	N	
MARIETTA	WA4QPL	144.89	145.49	*	PA
MARIETTA	N4NFP	146.055	146.655	*	EAL
MARIETTA	KE4FT	146.13	146.73	N	
MARIETTA	KC4KE	146.175	146.775	*	
MARIETTA	W4BTI	146.28	146.88	N	
METTER	W4TYM	147.645	147.045	N	
MILLEDGEVILLE	KF4LI	144.55	145.15	*	A
MILLEDGEVILLE	WB4DOJ	146.10	146.70	N	
MILLEDGEVILLE	KF4LT	146.205	146.805	N	
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	*	PA
NEWNAN	K4SEX	146.19	146.79	*	
PERRY	KB4KIN	146.355	146.955	*	A
PINE MT/HAMILTON	WB4ULJ	144.59	145.19	*	
PRESTON	W4TOV	146.385	146.985	N	
QUITMAN	WA4NKL	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
ROME	W4VO	146.34	146.94	*	EA
ROME	K4HNM	147.90	147.30	N	
ROSSVILLE	W4FGQ	144.75	145.35	*	
ROSWELL	N4CLA	147.66	147.06	*	EA
SAVANNAH	K4NLX	146.10	146.70	N	PA
SAVANNAH	W4HBB	146.28	146.88	N	
SAVANNAH	W4HBB	146.37	146.97	N	A
SAVANNAH	K4NLX	147.81	147.21	N	
SNELLVILLE	WD4JXR	147.675	147.075	*	PA
ST SIMONS ISL	KA4CVE	147.69	147.09	N	
ST. MARYS	KA4UUB	146.385	146.985	N	P
STATESBORO	NC4D	147.705	47.105	N	
STOCKBRIDGE	WA4JDR	144.71	145.31	N	
STONE MT	W4BOC	144.85	145.45	*	
SUMMERVILLE	KA4LVY	147.825	147.225	N	
SVR CRK/MT ALTO	K4HNM	147.90	147.30	N	
SWAINSBORO	K4VYX	146.19	146.79	N	
SYCAMORE	KF4BI	147.78	147.18	N	
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	N	A
TOCCOA	KA4DIP	147.93	147.33	*	PA
TYRONE	W4PSZ	144.61	145.21	*	PA
UNION CITY	WA4UPE	146.025	146.625	N	
VALDOSTA	W4APS	146.16	146.76	N	
VALDOSTA	K4JFE	147.735	147.135	N	
VALDOSTA/TIFTON	WA4VLP	144.53	145.13	N	
VIDALIA	N4JWP	146.025	146.625	*	A
WALESKA/PNLGMT	KE4PN	144.67	145.27	N	L
WARNER ROBINS	WB4BDP	146.01	146.61	N	
WARNER ROBINS	W4HON	146.25	146.85	*	A
WARNER ROBINS	W4MST	147.615	147.015	*	
WARNER ROBINS	W4HON	147.90	147.30	*	A
WAYCROSS	WA4GVG	146.04	146.64	N	
WRENS	WB4OCB	146.175	146.775	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	
YNG HRS/RCKY TP	N4EFL	146.355	146.955	N	

220 MHZ

ATLANTA	W4DOC	222.74	224.34	N	L
ATLANTA	W4DOC	222.96	224.56	N	
ATLANTA	KK4C	223.22	224.82	N	PAL
ATLANTA/BELL	W4ZTL	223.02	224.62	N	
ATLANTA/SWEAT MT	N4NFP	222.52	224.12	N	PAL
AUGUSTA	NA4I	223.34	224.94	N	P
BUCHANAN/HARALSO	WB4UPC	222.46	224.06	N	L
BUCHANAN/HARALSO	WB4UPC	223.34	224.94	N	
CANTON	N4KSM	222.90	224.50	N	
CONYERS	WB4JEH	222.90	224.00	*	
CONYERS	WB4JEH	222.96	224.56	*	
CUMMINS/SAWNE MT	K4JSR	223.38	224.98	*	PA
DALTON	N4BZJ	222.44	224.04	N	P
DALTON	N4KVC	223.24	224.84	*	
GAINSVILLE	W4NSO	222.30	223.80	*	
GRAY	W4TG	223.06	224.66	N	
JASPER	KB4IZP	222.40	224.00	*	
MARIETTA	WA4QPL	223.30	224.90	*	

MORE GEORGIA REPEATERS

PERRY	WL7ACY	223.24	224.84	*	
ROSSVILLE	KC4EV	223.34	224.94	N	
STONE MT	W4BOC	223.16	224.76	*	
THOMASVILLE	N4JBF	222.72	224.32	N	
VALDOSTA	W4APS	222.38	223.98	N	

440 MHZ

ALBANY	W4MM	439.25	427.25	N	
ALBANY	W4MM	449.50	444.50	N	
ATLANTA	W4KIP	439.25	421.25	N	V
ATLANTA	W4DOC	444.825	449.825	N	NB
ATLANTA	W4DOC	447.075	444.075	N	
ATLANTA	W4DOC	448.175	444.175	N	
ATLANTA	W4DOC	449.45	145.67	N	RB
ATLANTA	WB4UWL	449.50	444.50	N	
ATLANTA	N4WQ	449.625	444.625	N	AO
ATLANTA	WA4NNO	449.925	444.925	N	
ATLANTA	WA4YNZ	449.975	444.975	N	T
ATLANTA/BELL	K4LDR	449.15	444.15	*	
ATLANTA/NE	WB8LVH	448.55	443.55	*	
ATLANTA/STONE MT	W4BOC	449.25	444.25	*	
AUGUSTA	WB4OCB	448.145	443.145	N	
AUGUSTA	NA4I	449.95	444.95	*	
BRUNSWICK	KB4PXX	439.25	421.25	N	V
BRUNSWICK	K4TVE	449.975	444.975	N	
CHATSWORTH	AA4EO	448.00	443.00	*	
COLUMBUS	WA4QHN	449.20	444.20	N	
CONYERS	WB8LBH	443.50	448.50	N	
CONYERS	WB4JEH	447.55	442.55	*	
CONYERS	WB8LVH	448.50	443.50	*	
DALTON	WA4TIW	449.735	444.735	*	NB
DECATUR	WB4LBM	449.20	444.20	N	
ELLIJAY	W4HHH	449.70	444.70	*	
GRIFFIN	WB4GWA	448.90	443.90	*	PA
JASPER/BIG BUCK	N4OKS	448.80	443.80	*	
LANETT(AL)	K4DXZ	447.05	442.05	*	
LAWRENCEVILLE	WB4QDX	449.00	444.00	N	
MACON	WB4OLL	444.90	449.90	N	NB
MARIETTA	K4PQD	449.05	444.05	N	
MARIETTA	WA4MPW	449.325	444.325	N	
MARIETTA	N4FNP	449.775	444.775	*	
MARIETTA	N4FNP	449.85	444.85	*	
MT OGELTHORPE	WB4BFD	449.375	444.375	N	
PERRY	KB4KIN	449.95	444.95	*	
RINGGOLD	KJ4IU	448.925	443.925	*	
ROCKY FACE	AA4EO	447.175	442.175	N	
SANDY SPRNGS/ATL	WA4MPW	449.325	444.325	*	C
SMYRNA	N4IBW	449.65	444.65	N	
STONE MT	N4MSE	449.025	444.025	N	
SWEAT MT	N4CLA	448.20	443.20	*	K
TIFTON	KF4JF	449.35	444.35	N	
TYRONE	K4NEF	449.55	444.55	*	
VALDOSTA	W4APS	449.70	444.70	N	

1270 MHZ

ATLANTA	W4DOC	1291.40	1271.40	N	

10 METERS

ALBANY	W4MM	29.58	29.68	N	L
CONYERS	WB8LVH	29.52	29.62	*	L
DALTON	N4BZJ	29.58	29.68	N	
SANDY SPR/ATL	KJ4IS	29.56	29.66	*	C

6 METERS

ATLANTA/SWEAT MT	WB4UPC	52.05	53.05	N	
CONYERS	WB4JEH	52.55	53.55	*	
LINEVILLE(AL)	WB4ODA	52.07	53.07	*	
PERRY	KB4KIN	52.13	53.13	N	C
SANDY SPR/ATL	WA4MPW	52.09	53.09	*	C

PACKET

ADEL	KF4JF-1	145.01	N	K
ALBANY	W4MM-1	145.09	N	K
AMICACOLA MT	WB4GQX-4	145.09	N	K
ATLANTA/EAST	KF4JJ-1	145.03	*	K
ATLANTA/EAST	KE4ZV-1	145.03	*	K
AUGUSTA	WD4CNV-1	145.01	N	K
CLARKSVILLE	W4EAW-1	145.01	N	K
COHUTTA	W4KAU	145.01	N	K
COHUTTA	W4KAU	145.09	N	K
COLUMBUS	K4ABT-1	145.01	N	K
CUMMING/SAWNEE	WB4GQX-1	145.01	N	K
FAIRMONT	AA4EO-1	145.09	N	K
FORSYTH	WB4GQX-2	145.01	N	K
HAMPTON	WA4TXT-1	145.01	N	K
LAGRANGE	WB4BXO-1	145.03	*	K
LYONS	N4JWP-1	145.01	*	K
MACON	K4ICT-2	145.05	*	K
PERRY	KB4KIN-1	145.01	N	K
PERRY	K4ICT-1	145.01	*	K
PERRY	KB4KIN-5	145.05	N	K
PINE MT/HAMILTON	WB4ULJ-1	145.01	*	K
ROBERTA	K4ICT-4	145.01	N	K
ROME	NC4G-1	145.09	N	K
SYCAMORE	WD4LYV	145.01	N	K
SYCAMORE	WD4LYV	145.05	N	K
WARNER ROBINS	K4AGT-1	145.01	N	K
WARNER ROBINS	WL7ACY-1	145.05	N	K
WARNER ROBINS	WL7ACY-2	145.05	*	K
SAWNEE MT/CUMMIN	WB4GQX-1	223.70	N	K

WEST VIRGINIA REPEATERS

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	N	
BECKLEY/EOC	N8FWL	144.77	145.37	*	LA
BECKLEY/FLAT TOP	K8BO	146.25	146.85	*	A
BLUEFIELD	W8MOP	144.89	145.49	N	
BOLT/BOLT MT	N8DKL	144.57	145.17	*	L
BRIDGEPORT	WB8DKM	147.72	147.12	*	EAL
BUCHANNON	N8FHE	144.53	145.13	*	
BUCKHANNON	N8FHE	144.81	145.41	*	A
BUCKHANNON	K8WYH	146.25	146.85	N	
BURLINGTON	N8FMD	146.145	146.745	*	
CHARLESTON	N8FMD	144.69	145.29	*	LC
CHARLESTON	W8WHQ	144.83	145.43	N	
CHARLESTON	WB8IFS	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CHARLESTON	KD8TC	147.81	147.21	N	C
CHARLESTON/HGTN	K8SLI	147.87	147.27	N	A
CLARKSBURG	N8FMD	146.085	146.685	*	
CLARKSBURG	KE8MR	147.915	147.315	N	
CRAIGSVILLE	KD8OG	144.67	145.27	N	L
DUNBAR	K8VKI	147.72	147.12	*	EA
FAIRMONT	W8SP	146.30	146.90	N	NB
FLAT TOP/WINTERP	N8BZS	146.025	146.625	*	
FRANKLIN	W3RUA	147.945	147.345	*	
GASSAWAY	WB8MZI	146.01	146.61	N	
GRAFTON	WD8LNB	147.975	147.375	*	
HARRISVILLE	WB8NSL	147.90	147.30	N	
HUNTINGTON	WB8FEQ	144.61	145.21	N	R
HUNTINGTON	W8VA	146.16	146.76	*	A
HUNTINGTON	KA8BKX	147.90	147.30	N	PA
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	*	
KINGSTON/LICK KB	W8FG	144.87	145.47	*	L
LAYLAND/MANN MT	N8BZS	144.71	145.31	*	L
LEON	WB8NMT	147.78	147.18	N	
LOGAN	WA8ZLR	146.09	147.11	N	ONB
LOGAN/BLAIR MT	NU8K	144.63	145.23	*	
LOGAN/WARD RK MT	WD8DRV	146.37	146.97	*	A
MADISON	KA8JYR	146.06	147.06	N	NB
MARMET/BEE MT	N8DBN	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	
MARTINSBURG	WB8VAZ	147.855	147.255	M	
MCMECHEN	WA8ULB	146.31	146.91	N	
MORGANTOWN	K8LG	144.83	145.43	N	AL
MORGANTOWN	W8CUL	146.16	146.76	*	LPA
MT STORM	K8VNQ	147.705	147.105	*	L
MULLENS/HRNDN MT	KC8IT	147.63	147.03	*	LARB
NEW MARTINSVILLE	WB8CSW	146.34	146.94	*	
NEW MARTINSVLLE	WB8CSW	147.54	146.94	*	NB
OAK HILL	K8CFT	146.19	146.79	*	EA
PARKERSBURG	WA8CRW	146.37	146.97	*	
PARKERSBURG	W8JZN	147.99	147.39	*	
PARSONS	K8VNQ	144.73	145.33	*	EAL
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KC8WL	146.46	147.06	*	A
PRINCETON/PIPEST	WD8OGY	146.325	146.925	N	A
RAVENSWOOD	WD8JNU	146.07	146.67	N	
RAVENSWOOD	WD8JNU	146.10	146.70	N	R
SALT ROCK	WD8MCR	144.51	145.11	N	
SHERRARD	KD8GL	146.115	146.715	N	EAL
SPRUCE KNOB	N8HON	146.055	146.655	*	
ST ALBANS	WB8GDY	146.40	147.00	*	
ST ALBANS	KA8SVR	147.75	147.15	N	
ST ALBANS	K8WMX	147.975	147.375	*	R
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
SUMMERSVILLE	K8VKB	146.34	146.94	*	
TERRA ALTA	KD8ZR	147.60	147.00	*	PA
WEIRTON	KC8JN	146.34	146.94	N	A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	N	PAL
WHEELING	WB8JGY	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	
WILLIAMSON	N8GOE	144.73	145.33	*	PA

220 MHZ

FLT TP/WNTRPLACE	N8BZS	222.46	224.06	*	
GRAFTON	WD8LNB	222.88	224.48	*	L
KINGSTON/LICK KB	W8FG	223.14	224.74	*	
WILLIAMSON	KA8YYW	222.54	224.14	*	

440 MHZ

BUCKHANNON	N8FHE	448.10	443.10	*	
CLARKSBURG	N8FMD	449.875	444.875	*	
GRAFTON	WD8LNB	447.20	442.20	*	

MORE WEST VIRGINIA REPEATERS

HUNTINGTON	KA8QYU	449.50	444.50	N	
LK KNOB/KINSTON	N8FRV	449.80	444.80	*	
LOGAN/WARD RK	WB8FQJ	449.40	444.40	*	P
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	*	PAL
MULLENS/HRNDN MT	KC8IT	449.00	444.00	*	RBL
S. CHARLESTON	WB8CQV	449.95	444.95	N	
ST ALBANS	WD8OZT	449.60	444.60	*	

6 METERS

DANVILLE/MADSN	K8JYR	52.06	53.66	N	NB
HERNSHAW/BEE MT	KA8SVR	52.09	53.69	N	NB
RAND	N8CDE	52.12	53.72	N	NB
ST ALBANS/COAL	WD8JKA	52.03	53.63	N	NB
ST MARYS/BENS R	WD8RET	52.17	53.17	N	L

PACKET

HUNTINGTON	KA8EUU-1	145.01	N	K
LOGAN/BLAIR MT	WB8FQJ-1	145.01	*	K
MORGANTOWN	N8BHI-1	145.01	*	K
ST ALBANS	K8SLI-1	145.01	N	
TERRA ALTA	KD8ZR	145.01	*	K
WILLIAMSON	KA8YYW-1	145.01	N	K

EAST KENTUCKY REPEATERS

2 METERS

ASHLAND	KD4SN	146.34	146.94	*	
ASHLAND	KA4DII	147.84	147.24	N	PA
ASHLAND	WA8KWH	147.93	147.33	*	A
DEAN	AK4U	144.61	145.21	*	
DOG FORK MT	N4MWA	147.75	147.15	N	
ELKHORN CITY	WB4WAU	147.60	147.00	*	PA
FLAT GAP	KB4NDB	147.69	147.09	*	O
GRAYSON	KF4JO	146.10	146.70	N	
GUTHRIE	KA4NNE	146.205	146.805	*	
HARLAN	WM4R	144.75	145.35	N	
HAZARD	K4VHF	146.07	146.67	N	
JENKINS	WD4PDJ	147.99	147.39	N	
LEXINGTON	KC4TX	144.85	145.45	N	A
LOUISA	WA4SWF	146.13	146.73	*	EA
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MIDDLESBORO	W4PPM	144.63	145.23	N	
MOREHEAD	K4GFY	146.31	146.91	*	
MT. STERLING	WD4KNE	147.745	147.145	N	
PIKEVILLE	N4IWZ	144.55	145.15	*	
PIKEVILLE	WB4GEL	146.19	146.79	*	PA
PIKEVILLE	N4IXA	146.25	146.85	*	EAL
PIKEVILLE	WB4GEL	147.87	147.27	*	PA
PINEVILLE	WA4YZY	146.04	146.64	N	
PRESTONSBURG	K4ICN	144.69	145.29	*	LRB
PRESTONSBURG	WB4KUC	146.28	146.88	N	
WINCHESTER	WB4ASZ	147.72	147.12	*	EA

220 MHZ

ASHLAND	KC4QK	222.34	223.94	N	
LOUISA	K4PGA	222.12	223.72	N	EA
PIKEVILLE	WB4F	222.98	224.58	*	
PIKEVILLE	N4ETG	223.02	224.62	*	A

440 MHZ

LYNCH/BLACK MT	N4IZD	448.10	443.10	N	

6 METERS

FLAT GAP	N4MPM	52.45	53.45	*	
GUTHRIE	KA4ZKL	52.23	53.23	*	

PACKET

BEREA	KA4MZY-1	145.01	N	
ELIZABETHTOWN	W4BEJ-1	145.01	N	
ELKHORN CITY	WB4WAU-1	145.01	N	
FRANKFORT	KB4AGA	145.01	N	
GREENSBURG	N4ICS	145.01	N	
HAZARD	K4AVX-1	145.01	N	
LEXINGTON	KF4NB-BBS	145.01	N	
LEXINGTON	W4AUZ-1	145.01	N	
LEXINGTON	WA4JAV-BB	145.01	N	
LOUISA	WA4SWF-1	145.01	N	
LOUISVILLE	W4MOP-1	145.01	N	
PRESTONSBURG	WA4FHK-1	145.01	*	K
WINCHESTER	WB4FDK	145.01	N	

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Highlights of The Repeater Journal

— by Wayne C. Williams, K4MOB, Editor

The Repeater Journal started in September, 1971, as a few pages of mimeographed material edited by Don Harris, W4BUZ of Greensboro, N.C. Don wrote a story about "What FM Repeaters offer you".

The Repeater Journal has slowly evolved over the past 16 years to a full-fledged information magazine, unlike any other in the United States. Many of you have followed the growth of our organization from the early days. Some of you came aboard later, and some are new to the organization.

Since we are presenting our special "Editor's 10th Anniversary Edition", I thought you might like some highlights we found as we gleaned through those early days of the Repeater Journal. To me they are facinating reading. Unfortunately space won't allow us to dealve very deeply into any subject, so we'll just hit the highlights and high spots we found.

DECEMBER 1971

The Repeater listing in the Journal included the following cities and frequencies: Durham, 34-94; Grifton, 16-76; Raleigh, 28-88; Chapel Hill, 22-82; Danville, 28-88; High Point, 34-94; Greensboro, 16-76; Salisbury, 28-88; Roaring Gap, 22-82; Lexington, 31-91; Mt. Airy, 38-98; Charlotte, 34-94; Shelby, 28-88; Asheville, 34-94 and Mt. Pisgah, 16-76. This included every repeater in the North Carolina FM Association.

NOVEMBER 1972

This issue of the Journal featured an article talking about the Central North Carolina Traffic Net which operated nightly on the Salisbury repeater. The net which began April 4th, 1972 had Bill Parris, K4GHR (now AA4R) as manager, and Ray Stuart, K4QDM as Assistant.

By now, 32 repeaters were listed in the North Carolina index, which included one 440 machine and 3 six meter machines.

MARCH 1973

The FCC began issuing repeater calls. The first in the country was issued to the Gypsy Radio Club of Joliet, Ill., WR9AAA. The first 4th call area repeater call was issued to the Rowan ARS of Salisbury, N.C. operating the 28-88 machine, with WR4AAA. They got the call March 13, 1973.

The Journal also noted that Ken Woodard, WA4BVW had the states first 220 mhz repeater operational on an experimental basis atop Mt. Pisgah.

Membership in the NCFMRA was 26 Full and 190 Associate Members. In advertising the NEW Regency HR-212-12 channel crystal rig was featured. This complimented the Regency HR-2MS and the HR-2A (both crystal types of course).

AUGUST, 1973

The Japanese rigs came to us in late Summer of 1973, as a new company called ICOM offered their IC-21 and IC-22 crystal-controlled units to the local market. The CLEGG FM-27B which had a crystiplexer frequency control was also announced (one of the first partially synthesized units). Clegg also had the HT-146 H/T, Genave had their GTX-2 and Standard had their SM-826M.

NOVEMBER, 1973

The Repeater Journal notes several repeater owners in South Carolina had joined the Association, since there was no organized group in that state. In November, 1973, the group met, and voted to change the name to "Carolina-Virginia Repeater Association, Inc." to allow entry of repeaters and members from both the Carolinas and Virginia to become a part of the growing organization.

By February 1974, 53 repeaters were listed in the 3-state area.

AUGUST, 1974

The Repeater Journal circulation had grown to 600. There were 223 Associate Members. The repeater index showed 35 repeaters in North Carolina, 10 in South Carolina and 23 in Virginia. The 1975 ARRL repeater Directory showed 843 listings for the nation.

FEBRUARY, 1975

The FCC issued the far-reaching Re-structuring Docket 20282, which would plague Amateur radio for several years.

MAY, 1975

The Journal printed a 52-page issue, included was the annual "Directory & Data" section of all member repeaters. Many stories were devoted to repeater operations, usage and how repeaters operated.

AUGUST, 1975

A Computer was used for a portion of the repeater index for the first time in the Journal. There were 82 repeaters in the 3-state area, 6.5% of the nation.

NOVEMBER, 1975

The CVRA Board adapted 440 mhz and 6-meter bandplans. First discussions about a CVRA decal were held.

FEBRUARY, 1976

Associate membership stands at over 700, Full Members total 65 in the 3-States. 1975 expenses for the organization was $1,614.86.

MAY, 1976

New regulations on ARRL VHF contests prohibited use of repeater inputs and outputs. A separate CVRA Handbook was to be printed in July.

AUGUST, 1976

In July the CVRA Board reduced the number of CVRA districts from nine to three, one for each state. "Tune In The World" was first introduced by the ARRL.

NOVEMBER, 1976

The November Journal used a picture on the cover for the first time. New FCC rules eliminated the need for using "portable" or "mobile" when IDing in those conditions. Amateurs no longer had to notify the FCC when they would be operating from home for an extended time period.

MAY, 1977

Bill Parris, K4GHR published his last Journal. CVRA had begun to issue 15 khz. repeater channels for the first time in 1977, in North Carolina as all standard 146 and 147 pairs were taken. The U.S. Amateur population passed the 300,000 mark for the first time in March, 1977.

AUGUST, 1977

Wayne C. Williams, K4MOB takes over as Journal editor. CVRA membership stood at 1,270, an increase of 65% since June of 1976. Associate Membership dues were only $2.00. FCC rules on landmark "Reverse Autopatch" inquiry to Chuck Bino, K4CJZ of Greensboro, setting the stage for Reverse autopatch repeaters in the future.

NOVEMBER, 1977

By September of 1977, Associate Membership up to 1,410. A story about the first traffic test "From Murphy to Manteo on Two" was published. (See special story this issue by Herb Lacy, N4UE.) The November Journal scooped the nation's Amateur magazines, announcing the FCC delay on implementing Docket 21033, which dealt with addition of new repeater sub-bands on 2-meters. It also eliminated the need for Special FCC licenses for Repeater, Auxiliary link and Control Stations (Previously they all were licensed and had callsigns for each). The Docket implimentation was announced on November 2, and rescinded on November 4th, the Journal published on November 8th.

MAY, 1978

The Journal reported on the implementation of Docket 21033, the new repeater sub-bands on 2-meters, and the death stroke of repeater

Continued on Page 33

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Continued From Page 31

callsigns. No longer did repeater stations, control or auxiliary links have to be licensed. When present repeater callsigns expired, they would not be renewed. The trustee's call would then be placed on repeaters. The effective date was May 15, 1978. The big surprise by the FCC (you'll note they were famous for surprises in those days too) came with a callsign restructure docket implementation. This was the beginning of the callsigns we have today, based on the class license.

Another FCC docket dealt with the prohibition of the marketing of amplifiers which covered 24 to 35 mhz., and finally, the Commission also extended the Novice license term from 2 to 5 years.

AUGUST, 1978

CVRA Associate Membership passed the 2,000 mark. Repeater lists also inched toward the 200 mark with 183 listed, NC-80, SC-43, & VA-60. The Journal circulation was at the 2,500 mark. Al Ross, K4CAW of Greensboro assumed duties as Frequency Coordination Chairman, relieving Herman Cone, WB4DBB of Durham.

The August 1978 Repeater Journal was the first typeset and printed by a large printing company. Previously typesetting and printing was done by Ham friends in the business, the last one being Buster Brafford, WB4ZIN of Burlington and his small print shop. The Journal had grown to a point, that it was too much to be handled by a small printer, so reluctantly the move was made.

One of those "future suggesting" stories was written by Danny Turner, WA4YGD about the future of RTTY on VHF. This mode was just catching on. How right Danny was in his predictions.

FEBRUARY, 1979

CVRA adopted an official 10-meter bandplan in January. The Amateur fraternity learned what the "Quiet Zone" was in Western Virginia and Eastern West Virginia when the FCC lowered the boom and issued a proposal to limit Amateur operations in the area bounded by Greenbank Observatory.

MAY, 1979

Associate Membership now 2,794, with 71% ARRL members. CVRA changes Constitution and By-Laws to make way for expected additional States to join organization.

AUGUST, 1979

Editorially the Journal lashes out at manufacturers for not producing 220 mhz radios. The only two, Midland and Clegg were winding down their warehouses for the originally planned CB 220 radios, that ultimately got 220 mhz going when CB prospects were finally killed for 220 mhz.

Lindsay Cleveland, W4IZI resigns as Associate Membership chairman after 5 years at the post. Larry McLaurin, WB4VJE took over membership, and Jim Bartlett, WB3JMH took over Journal mailing.

After 21 years at Cedar Park, the Shelby (NC) hamfest moves to Cleveland County Fairgrounds (they outgrew the park).

NOVEMBER, 1979

The November Repeater Journal exclaimed in big letters on the cover, "Tennessee Votes Yes". O.D. Keaton, WA4GLS, SCM for Tennessee who was instrumental in getting the word out and a vote from all the repeaters in the State made the announcment in October. Thus in January, 1980, Tennessee became the 4th State of CVRA.

The first CVRA decal was introduced, and WARC '79 was getting underway in Geneva.

FEBRUARY, 1980

The Journal reported in February that word had been received that West Virginia repeater owners wanted to join CVRA. Also one of the first polls was taken in Georgia for membership into CVRA.

The CVRA News Net scored big with WARC '79 Band by Band results less than 8 hours after they were announced in Geneva.

MAY, 1980

The new districts of Tennessee and West Virginia were featured in this issue of the Journal. Our organization was now 5 states.

Bill Paige, WA4LWX resigns as Full Membership Chairman after 6 years of faithful service.

AUGUST, 1980

The cover story was about another tall repeater on Sassifras Mt. in South Carolina, the highest peak in the State. The machine on 19-79 was operated by the Anderson RC.

To top this off, another "tall tower" repeater on 19-79 south of Greensboro, N.C. was featured. This was the 2nd 2,000 foot tower constructed in NC in as many years.

NOVEMBER, 1980

Only the 3rd time in it's history, the organization changed it's name. CVRA (Carolina's Virginia Repeater Association, Inc.) now became CVRA-SERA for CVRA-Southeastern Repeater Association, Inc. The letters CVRA were retained to maintain nationwide identity, with plans to ultimately drop the letters someday. The Board voted the new name at the August board meeting.

FEBRUARY, 1981

A cost cutting drive by CVRA, prevented membership increases in 1981. Renewal notices were cut to only 1. Forwarding and Address Correction by the Post Office was discontinued, and free Journals to new members before next regularly scheduled editions were cut out.

MAY, 1981

The Cover story was about a small plane knocking down the WWAY-TV tower in Wilmington, also housing the Wilmington 22-82 repeater. The 1,200 foot tower was demolished. The Repeater Journal won an "Outstanding" Rating in the ARNS annual Publication judging.

NOVEMBER, 1981

An editorial about an earlier editorial was described this issue, as creating quite a stir, and was picked up and published by newsletters across the Nation. It concerned restrictions which had been placed on VHF/UHF contesting by the ARRL. Fortunately many rule changes came about in the ARRL sponsored contests, hopefully as a result of our endeavor.

Coordination Policy and Guidelines for CVRA-SERA were spelled out in a new re-write. A new Frequency Coordination form was designed by Mike Williams, KC4AO of Virginia, and Sam Kirby, WB4HAP of Tennessee.

FEBRUARY, 1982

Associate Membership now stands at 3,350. The Financial Report showed expenditures of over $12,000 for the Organization in 1981.

MAY, 1982

The May issue cover offered a terrific view of the World's Fair at Knoxville, Tn., and a special inside told of the event, and a part Amateur Radio played.

The big story was "CVRA-SERA Now Tax Exempt", which was the lead story. After eleven years of tries by various Treasurers, the newest Treasurer, Ray Adams, N4BAQ of Knoxville succeeded.

A Membership contest with over $700 worth of prizes was started by the Journal.

Another story told of Lindsay Cleveland, W4IZI, our original Associate Membership Chairman moving from Chicago to Atlanta, and resuming duties of the computer operation for us.

AUGUST, 1982

The Cover story was about the 25th Anniversary of the Shelby Hamfest. Lots of pictures of those years, including the winners of the first prizes at the 1st Shelby Hamfest.

NOVEMBER, 1982

Contest results netted 664 new members, and 1,374 renewals. A special story about the Mt. Mitchell repeaters, being the highest spot on the East Coast. The 2-meter machine on 59-19 came on the air permanently on June 22, 1982, after a couple months testing.

Continued on Page 35

September VHF QSO Party Sept. 12-14

The annual ARRL September VHF QSO Party will be held this year on September 12 (1800 UTC) until September 14 (0300 UTC).

Standard contest rules apply, with the object to work as many Amateur stations in as many different grid squares as possible using authorized frequencies above 50 Mhz.

The exchange is your grid square locator, and optional signal report. Contest is conducted on all VHF/UHF bands. Contacts may be made in modes authorized for that portion of the respective bands.

Certain limitations qpply to FM. You cannot work repeater input or output frequencies, or 146.52 simplex on 2-meters. The 223.50 frequency can be used on 220.

QST published the complete rules on page 78 of the August issue.

One word of warning. QST lists certain simplex frequencies that are good in some portions of the country, but may not be good in our area. Use caution and see that you are on an authorized FM simplex frequency for your area, and not operating in a repeater input, or a packet frequency on FM voice.

Tennessee Council To Oust

Continued From Page 10

the owners and the Atlanta office of FCC for the past 18 months. The FCC had shut down the repeater but it was returned to the air in June by the FCCs Private Radio Bureau as an "uncoordinated repeater." Interference problems between the two machines continue.

Apparently as the Shelton letter was written, another letter from another Tennessee source to the ARRL, names Sam Snyder, WB4SBX, frequency coordinator for a newly created "Appalachian Repeater Council." SERA as of now, has not responded to the FCC, ARRL or the Tennessee group. It is rumored that the groups first coordination will be the re-coordination of the K4LSP Kingsport repeater.

The Journal was unable to learn under what actual basis the group wishes to take on the chores of coordination of portions of 4 states, or whether they plan to cooperate with SERA and T-MARC in future coordinations. According to the FCC, to be a frequency coordination, you must be the choice of the Amateur population in that area. It is not known if the new organization has that backing. Perhaps letters to SERA Journal editor might enlighten us, especially in the immediate Kingsport area.

The SERA board is expected to discuss this situation at the August 23rd meeting in Greensboro, N.C.

The Kingsport K4LSP/Mt. Pisgah, WA4BVW conflict has been on and off since 1973 then the K4LSP repeater moved to a mountain top. The Journal as purposely not reported on this conflict for fear of damaging Amateur relations within the parties involved, and with the Amateur service with the outside world. Now, it seems, the Kingsport group is going to force SERA's hand.

Spruce Pine Hamfest

Congratulations to Keith Potter, KA4PNO and Fay Robertson, W4SIJ, each winners of a one year associate membership at the first Spruce Pine (NC) Hamfest on July 11th. The hamfest was sponsored by the recently formed Mayland Amateur Radio Club.

CLYDE'S LAW:

WHEN YOU GO INTO COURT, YOU ARE PUTTING YOUR FATE IN THE HANDS OF TWELVE PEOPLE WHO WEREN'T SMART ENOUGH TO GET OUT OF JURY DUTY.

AUGUSTA HAMFEST

THE PLACE TO COME IN GEORGIA

SUNDAY SEPT. 20, 1987

AT THE JULIAN SMITH CASINO

PRIZES: 1st. $475.00 cash
2nd. ICOM 02AT
3rd. 20 amp power supply

You don't have to be present to win

INDOOR AND OUTDOOR FLEAMARKET SPACE AVAILABLE> COST :$ 5.00

ARRL VEC EXAMS WILL BE HELD AT THE AUGUSTA RED CROSS BLDG: 12th and Walton Way
Starting at 8:00 am.

TALK-IN 146.34/94 For directions to hamfest and exams...

COME TO SAY HI AT THE HOSPITALITY ROOM SAT. NIGHT at 7:30pm.
PLACE: RAMADA INN WEST, Washington Rd.

entertainment provided by: The Tollison & Murray Families

TICKETS for HAMFEST $2.00 *ea.* (no limit)

For further information and hotel reservations, call:

KJ4LA/Chuck Colwell
1-404-798-2078,
AFTER 6.00 PM.

Highlights-16 Years of History

Continued From Page 33

At the Fall Board meeting, Associate Membership dues were raised to $4.00.

FEBRUARY, 1983

Another major change in the Journal -- the size was moved to 8-1/2x11 inches for the first time, to conform with most other magazines on the market.

The Cover story featured the Civil Air Patrol/Ham Operators, which was later picked up and run across the nation in other CAP publications.

MAY, 1983

Stubby was introduced to the Journal for the first time. Stubby cartoons are drawn by Fred Hurteau, WD4SKH of Whiteville, N.C.

The Cover story this issue dealt with computers and Amateur Radio, little was mentioned about packet quite yet. The worst ice storms in 27 years were described in the mountains in January.

AUGUST, 1983

"ARRL -- What Is It!" was the Cover story for this issue of the Journal. Guest writers included: Vic Clark, W4KFC, President of ARRL, Gay Milius, W4UG, Roanoke Director, Steve Kercel, AA4AK, Asst. Dir., Delta Division and others. The history with some pictures of the organization were printed.

SERA had 606 repeaters in 5 states, at the end of 1982. The Pt. Lookout Mt. N4VL repeater on 53-13 came on the air during the summer. This repeater is on one of the tallest peaks in SW Virgina.

NOVEMBER, 1983

The FCC approved the Volunteer Examiner Program in September, expected to the administered by Spring 1984.

STS-9 space flight with Owen Garriott, W5LFL was delayed until late November.

The York County ARC (SC) was the subject of a special section. A total of 633 Full Member repeaters for 1983.

FEBRUARY, 1984

The editorial told the sad story, Vic Clark, W4KFC was dead. Elsewhere, the FCC gave us a good surprise, by proclaiming "No Code is Dead". It had been rearing its head since Docket 20282 in 1974.

The CVRA-SERA Board met in January, and wrote certain revisions in the Coordination Policy. At the time the FCC was talking big about "coming down hard on uncoordinated" repeaters.

MAY, 1984

The May Repeater Journal carried extensive coverage of the March tornadoes in South Carolina and North Carolina, with pictures and stories throughout the areas. The SERA Coordination Policy was again printed in the Journal.

The ARRL reported QSL cards for the historic W5LFL space flight were in the mail.

AUGUST, 1984

New Volunteer Examiner Program just getting started, with 4th and 8th Call Districts having Certified VEC's, ARRL waiting until FCC allows re-inbursement, sometimes before July. W5YI certified as National VEC in June.

NOVEMBER, 1984

Mother Nature again played havoc on the coast of North Carolina as Hurricane Diana moved through. The FCC gave their last field exam in the area, and last exam at the office in October, making way for Amateur examinations by VECs.

North Carolina began the "Ham Watch" program, in conjunction with the NC Div. of Vehicles. Members could get special license plates from the State, properly identifying Amateur emergency vehicles to all State and Local law enforcement agencies.

FEBRUARY, 1985

Associate Membership dues raised to $5.00 and Full Membership to $10.00 at the annual board meeting. A new HOT-P type membership was offered where the Journal would be mailed 1st class postage the day it came from the printer. The "Looking Back" column was introduced to the Journal.

SERA introduced their new decal. CVRA news net resumes operation starting its 6th year, with a linking system across North Carolina on PCRN.

MAY, 1985

History was again made with SERA, as Eastern Kentucky joined as a District, making 6 states. The Journal started their first in a series "Introduction to Packet" articles, with a special section on Packet which was just beginning to take hold. The SERA News Net moves into 5 states with linkups on 2-meter repeaters.

AUGUST, 1985

Georgia has filled a petition to become the 7th state under the umbrella of CVRA-SERA.

NOVEMBER, 1985

Georgia voted in as District in September at Board Meeting. More Hurricane for the East Coast, Gloria sweeps across. A special Section in the Journal covered repeaters and owners in our 6th new District, Eastern Kentucky.

FEBRUARY, 1986

The big story this issue was the January Board meeting. FCCs Angelo Ditty spoke to the record attending group and held question and answer sessions. Alabama filed a petition to the board for membership, which was placed on hold due to certain circumstances in that area for coordination.

A special story in the Journal told "How to take Ham License Written Tests".

More Hurricane trouble, this time West Virginia got flooded by Hurricane Juan in late November.

MAY, 1986

Again, the Journal scooped the Nations Amateur media with word that Docket 85-22, "The Coordination" Docket and Docket 86-161, "Novice Enhancement" had been issued by the FCC. The announcement was made at Dayton April 30, the Journal published May 4th.

AUGUST, 1986

SERA Associate Membership dues went up to $6.00 per year, and Repeater Full Memberships to $15.00 annually.

A comprehensive story was printed on Docket 85-22, the Coordination Docket as it was called. David Ward, KA4LVO noted a new address for SERA, the Post Office box was changed from Greensboro to Winston-Salem.

NOVEMBER, 1986

Our pride and joy Journal was published with Full-Color front and back for the first time. Future editions were promised to remain full-color covers.

At the Directors meeting a committee was appointed to rewrite the Coordination Policies to conform with the FCC's Guidelines on Docket 85-22. A total of 598 Full Member repeaters were listed in the index.

FEBRUARY, 1987

A story covered a wide-area band opening on 2-meters, East to West. The January SERA Board meeting approved amended version of the new Coordination Policy. The new policy and all SERA VHF/UHF band plans were printed in a special 8-page supplement in the Journal.

SERA had expenses of $19,327.46 during 1986.

MAY, 1987

Last issue of the Journal featured CAP/Hams doing some Direction Finding. The FCC's latest surprise was Docket 87-114, where they wanted to take 2 Mhz. off the bottom of the Amateur 220 band and give it to Land Mobile interests, a bitter fight was promised by the Amateur community.

Another interesting FCC proposal was PRB-3, which asked if a separate identity should "sell" preferred callsigns to the Amateur Community. The Commission would change their structure of issuing separate blocks of calls for different class of licenses, and issue only one station from a single block. The Commission also confirmed that Novice stations could act as Digipeters on Packet.

FUTURE JOURNALS

We hope to continue to publish a high quality, informative magazine for our members in the future. Your comments and criticism is always welcomed and will all be given careful consideration.

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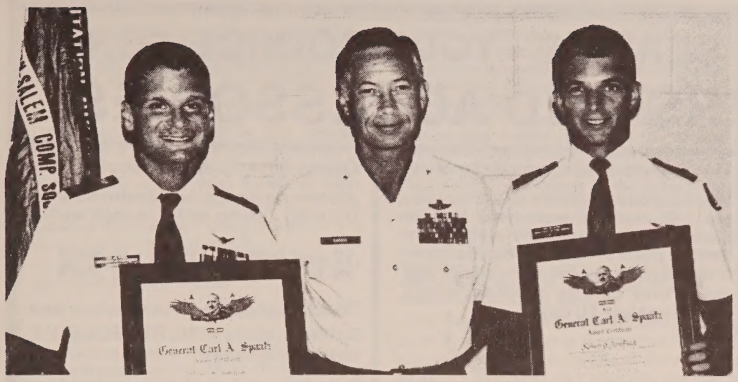


Civil Air Patrol Cadets Jaime S. Burcham, KB4MZU, (left) and R. Gwyn Armfield, KA4SJV, (right) have just received their General Carl A. Spaatz Award Certificates from B/Gen. Norman C. Gaddis, USAFRet, (center) during ceremonies at the Winston-Salem (NC) Squadron.
– CAP Photo by Bill Batts (KB4EAK)

Winston-Salem Hams Receive Spaatz and Eagle

Winston-Salem, N.C.: Gwyn Armfield (KA4SJV/Red Dog 373) and Jaime S. Burcham (KB4MZU/Red Dog 388), both of Winston-Salem, NC, and Richard W. Crapse (KB4TKQ/Red Dog 341) of King, received pinnacle achievement awards in Scouting and in Civil Air Patrol.

Burcham and Armfield were presented their General Carl A. Spaatz Award Certificates by B/Gen. Norman Gaddis, USAFRet. Crapse has earned his Eagle Scout Award. Crapse is a member of Troop 409, Boy Scouts of America, chartered to the King American Legion, and all three young men are cadet members of the Winston-Salem Squadron of the Civil Air Patrol and of Aviation Explorer Post 82 which is dual chartered with the Winston-Salem CAP Squadron.

The General Carl A. Spaatz Award is the highest achievement award in the Civil Air Patrol Cadet program. It requires the young man or woman earning it to complete all fourteen achievements in the cadet program and to pass a stiff written and performance examination administered by US Air Force personnel. The exam tests the cadet's aerospace knowledge, leadership, physical fitness, and moral leadership. It takes three to four years of diligent work to attain. The Eagle is probably a more familiar accomplishment. It is the highest achievement sward available to young men in Boy Scouting. Like the Spaatz, it requires an extended period of hard work and tenacity, accomplishment, and demonstrated leadership ability.

All three young men plan Air Force careers. Armfield has finished his freshman year at The Citadel having graduated from Reynolds High School in Winston-Salem in 86. Burcham, who graduated from Bishop McGuiness Memorial High School this month, and Crapse, a South Stokes High School 87 graduate, will attend the Air Force Academy starting mid-summer of this year. All three young men are licensed pilots.

Both Burcham and Armfield served as Winston-Salem CAP Squadron Cadet Commander, North Carolina Wing Encampment Cadet Commander, and, in Exploring, as Old Hickory Council Explorer Officer Association chairmen. Both hold the Civil Air Patrol rank of cadet colonel. Crapse has served his troop in leadership positions. He served on boy scout camp staffs at both Camp Raven Knob and Camp Uwharrie and is an ordeal member of the Order of the Arrow. In Civil Air Patrol, Crapse holds the rank of cadet second lieutenant and has served as squad leader and flight commander. All three are licensed pilots as well as Civil Air Patrol and amateur radio operators.

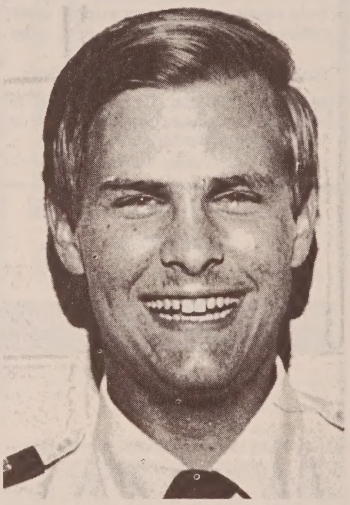
Forsyth ARC Plans Amateur Radio Demo At Boy Scout Camp

Winston-Salem, NC: Plans are afoot for the Forsyth Amateur Radio Club to operate its station, W4NC, from the Old Hickory Council's Raven Knob Scout Reservation during this summer's camp season. The station will accept message traffic from scouts at camp to their families at home. The traffic will be handled by the NTS through regularly scheduled nets in most cases. The club's hope is to create some interest in ham radio among the scouts.

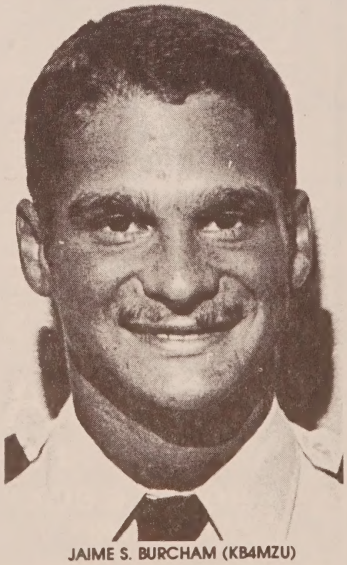
Chan Sawyer (W4JCB), past club president and a commissioner in the council, and Tom Gallagher (K4IOZ), are putting the program together with both club and council participation. Forsyth Club members, it is planned, will man the station which will be semi-permanently established at "The Knob."

Forsyth County Hams Appointed To AF Academy

Forsyth County NC: Jaime S. Burcham (KB4MZU) of Winston-Salem, NC, and Richard W. Crapse (KB4TKQ) of King, NC have received appointments to the U.S. Air Force Academy class of 1991. They were nominated by Congressman Steve Neal. Burcham graduated with honors from Bishop McGuinness High School in Winston-Salem and Crapse is an honor graduate of South Stokes High School in King, NC. Both young men are members of the Winston-Salem Squadron, Civil Air Patrol and of Explorer Post 82, Old Hickory Council, Boy Scouts of America.



RICHARD W. CRAPSE (KB4TKQ)



JAIME S. BURCHAM (KB4MZU)

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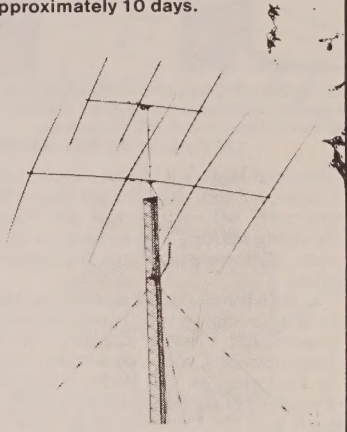

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RELAYS—These Motorola Type A style relays can be installed near the fuse block in the fenderwell and remotely switched under the dash with a small toggle switch. Excellent for switching high current lines. Relays are a closed type with screw terminals for mounting. .....Special $13.95

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Column Widths are 1 col: 2-1/4-in., 1-1/2 col: 3-1/2-in., 2 col: 4-5/8-in., 3 col: 7-1/8-in. Ad widths will be based only with the specified column widths.

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Advertising copy MUST be mailed to: REPEATER JOURNAL ADV. MANAGER, SHARON WARD, 5573 Vienna-Dozier Rd., Pfafftown, N.C. 27040.

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CVRA REPEATER JOURNAL advertising rates apply to exact size, camera ready copy. We can provide typesetting and reduce art for your ad at our cost. Composition and typesetting for full page ad approximately $25 to $28. Half page ad from $12 to $15. Reduction of artwork for ad with no type needed is $4.50. COLOR: One additional spot color, on available color pages is available for an additional $25.00 charge per ad. FULL COLOR: Is available on the Inside Front and Inside Back covers. 100-130 Line separation negatives, right reading, emulsion down are required. No extra charge for full bleed. Due to Journal width being 1/4-in wider than national magazines, the color will bleed to outer edge, with a color stripe on inner edge of page, if separations do not fill width.

The Repeater Journal layout size is very close to most National magazines. If you wish to use a page from one of the magazines, to promote your product, we can reshoot on the camera, insert your store name and customize for your particular application. Be sure to submit a clean, unwrinkled copy of the magazine page.

Contract advertising may be billed quarterly at the request of Advertiser. No volume discounts or contract discounts are available. It is the advertisers responsibility to cancel or request changes in advertising at the time he pays his bill, or before ad deadline, otherwise, advertising will be repeated until further notice.

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Club, ARRL, ARES, DX, FCC Information

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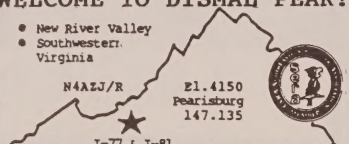
- Southwestern Virginia



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Northern Kentucky Tower Fund

John Thernes, WM4T, has won his long-standing court battle with the city of Lakeside Park, Kentucky. . . but he still needs your help! John is still short of recovering the total cost of his litigation by some $6,000.00. In a settlement discussion held with the city (in front of the Federal District Judge for the Eastern District of Kentucky), the city agreed to the following terms:

- A tower of sixty-five feet was permitted. The tower will support a tri-band Yagi and a two-element forty meter beam.
- An eight goot mast to support the two-element forty meter beam antenna was permitted. Total antenna height above ground to be seventy-three feet.
- All necessary building permits were issued and will remain free from any present or future ordinances which the city may enact.
- A cash payment of $13,800.00 was made to WM4T.

The legal battle cost over $27,000.00. The $13,800.00 payment covered the cost of the litigation from the effective date of PRB-1 only. (September, 1985). The judge indicated, that in his opinion, there was not a clear law on the books, prior to PRB-1, that would justify the awarding of all attorney's fees. The cities payment and prior donations to the Northern Kentucky Tower Fund have brought the deficit down to $6,000.00.

John hopes to make up the difference through additional donations to the NKTF. It is hoped that you and other concerned amateurs will realize the significance of this ligitation as having enormous national benefit to all of amateur radio now that community zoning boards will be forced to think twice before denying an amateur a permit for an effective and reliable antenna system. Please show your support by contributing what you can. All contributions to the fund are deposited in the bank with payment going directly toward John's outstanding legal bill.

If you would like a copy of the consent decree, please send a self addressed stamped envelope (with 44 cents U.S. Postage) to Northern Kentucky Tower Fund, P.O. Box 17721, Lakeside Park, Kentucky 41017. A donation to at least cover the cost of reproducing the decree is required. The amount of donation is up to you.

Please do what you can to help WM4T recover fully from this very expensive battle!

Hamfest Chattanooga

The Ninth Annual Hamfest Chattanooga Amateur Radio and Computer Convention will be held at Grand Central Station at the Chattanooga Choo-Choo.

Amateur exams on Saturday will be given by WCARS/VEC ($4.00;) the Sunday exams will be given by ARRL/VEC ($4.25).

Walk-ins will be accepted on a space-available basis.

For further information, write HAMFEST CHATTANOOGA at P.O. Box 3377, Chattanooga, TN 37404. For exhibitor information, call Barbara Gregory, WA4RMC, 615/892-8889.

Maysville (NC) Hamfest

The Maysville (NC) hamfest, sponsored by the Maysville Hamfest Club will be held October 11 from 9 to 3 pm at the Maysville Community Park. There is no admission charge. Flea market, tailgating. Talk-in on Grifton 146.685.

VE exams will be held. Contact A.S. Griffith, W4ULD, 203 Lord Granville Drive, Morehead City, NC 28557. (919) 726-5924.

For hamfest info, contact, Jo Ann Taylor, WD4JYR, Rt. 1, Box 80-36, Swansboro, NC 28584. (919) 393-2120.

VECs To Revise Written Ham Tests Every 3 Years

Volunteer Examiner Coordinators, meeting at the ARRL National Convention in Atlanta in July, voted to revise the various written examination question pools on a three year cycle.

The FCC had previously revised the questions annaually for all Amateur Radio Operator examinations. The government has been slowly withdrawing from the Amateur radio testing business for the past five years. Question pool maintenance was turned over to the various VECs effective this year and a moratorium on routine question revision went into effect until January 30, 1988. VECs now completely handle the development, revision and implementation of all written examination questions.

The FCC has mandated that the 20 different VECs in the country must agree on a single test pool.

Thirteen out of the 20 VECs were present at the meeting in July. Various presentations were given about testing and testing integrity.

After much discussion, the group voted to revise the question pool every three years. In cases of errors, or FCC rule changes, warranting changes in questions, they would be updated immediately.

A committee was appointed to work out a schedule for the various activities necessary toward implementing the new pools. They must develop a program to solicit new and revised question input from the Amateur community and to get concurrence from other VECs prior to adoption and implementation of a new question pool.

Members of the committee include: Jim Clary, WB9IHH, ARRL-VEC, Chairman; Ray Adams, N4BAQ, WCARS-VEC and R.C. Smith, W6RZA, Greater LA ARG-VEC as members. Fred Maia, W5YI-VEC was named as an alternative.

CVRA-SouthEastern Repeater Association, Inc.

FINANCIAL REPORT FROM JANUARY 1 TO JUNE 30, 1984, 1985, 1986, AND 1987

REVENUES	1984	1985	1986	1987
Advertising	$3,518.00	$ 4,117.85	$ 3,374.25	$ 3,586.50
Associate Membership dues	4,613.00	5,691.88	5,703.00	6,766 50
Full Membership dues	1,374 00	2,413 00	2,239 00	2,633.00
Decals	-0-	110.00	39.00	16.00
Postage - includes H O T.P.	-0-	48.50	121.00	148.50
Hats	-0-	-0-	57.37	33.00
Contributions	-0-	-0-	182.00	102.00
Interest	-0-	-0-	115.97	210.39
Other	29.75	6.50	61.14	14.00
	$9,534.75	$12,387.73	$11,892.73	$13,509.89
EXPENSES				
Journal mailing	$1,223.85	$ 1,015.67	$ 1,833.08	$ 1,303.28
Journal printing	7,918.75	7,893.41	6,191.24	8,572.22
Miscellaneous	2.35	541.32	-0-	59.95
Directors meetings	534.19	768.68	1,074.20	1,410.43
Office expenses	8.67	175.22	-0-	35.00
Postage - other than journal	69.12	144.45	172.66	121.43
Printing - other than journal	62.80	813.27	10.36	543.50
Telephone	129.66	219.97	322.27	145.51
	$9,949.39	$11,571.99	$ 9,603.81	$12,191.32
EXCESS (DEFICIT) OF REVENUE OVER EXPENSES	$(414.64)	$ 815.74	$ 2,288.92	$ 1,318.57
Balances, beginning of year				
Expenses advanced	$ 800.00	$ 900.00	$ 950.00	$ 900.00
Invested in office machines	1,792.00	1,344.00	896.00	2,571.63
Cash in bank	2,507.39	1,413.04	2,107.05	5690.15
	$5,099.39	$ 3,657.04	$ 3,953.05	$ 9,161.78
EQUITY TO ACCOUNT FOR	$4,684.75	$ 4,472.78	$ 6,241.97	$10,480.35
Less: Expenses advanced	$ 900.00	$ 900.00	$ 300.00	$ 900.00
Invested in office machines	1,792.00	1,344.00	896.00	2,571.63
	$2,692.00	$ 2,244.00	$ 1,196.00	$ 3,471.63
CASH IN BANK	$1,992.75	$ 2,228.78	$ 5,045.97	$ 7,008.72

Financial Report
—by Ray Adams, N4BAQ
SERA Treasurer

Respectfully submitted,
Ray Adams
Ray Adams, N4BAQ
Treasurer

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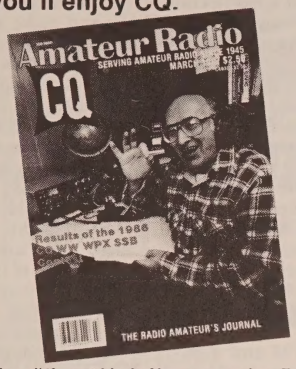

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CW IS FUN!

— by James Harrison, N4NV

Morse Code is probably used by more Amateurs (outside the United States) then any other mode of transmission. From what we read, lots of Hams throughout the rest of the world cannot afford a Phone rig. Anyone who has thumbed through a radio handbook knows it takes quite a few parts to come up with a transmitter that will put your voice on the air. But, how many have noticed that a single transistor, a crystal and a handful of parts, (with a battery), will get you on the air with CW?

Most of us are not old enough to experience it, but CW was the very first mode of transmission by radio waves. The FCC does not test us on use of a microphone - they assume we can talk - but CW is another kind of language. It separates we Amateurs from all others - even the space-age Astronauts, unless they learn code, cannot get on the Ham bands (legally, that is).

Many suggestions have been offered for those desiring to increase their code speed and upgrade their license; (the best one is - unplug the mike & listen to CW). I tried quite a few of the many suggestions and finally took the tip of an old-timer to just copy code every day. I found that his suggestion to give it about 30 minutes a day, (and that means every day if possible, but not once or twice a week), will result in definite success. By hitting it daily, you will remember a little of what you picked up yesterday; and so on each day. You may like tapes, records, on-the-air QSO's, etc., but I found the WLAW code practice sessions of more help than all other methods. Remember, the FCC no longer requires you to send code as part of the exam - you need only to copy it. So, if you will pick the days or nights when W1AW is sending "down the scale", or when they start fast and work down in speed, you will progress more rapidly.

On such days or nights W1AW starts at 35 WMP and works down to 15 WPM.

35 WMP may seem to be a blurr at first, but hang in there - when they get down to 25 and then 20, you will begin to pick out short words like OF, AND, THE etc., and in a few weeks or less you will begin to make sense out of it all.

If you are working for the General or Advanced ticket the 15 WPM copy will be for you, but get it all including the numerals, the comma, period, slant bar, and the question mark.

If you want EXTRA, concentrate on the 30 and 25 WPM speeds, and stay with it day after day. Someone wrote a long time ago that the best way to copy code is by long-hand script - do not print - you can write faster than you can print. Sounds great, except I could never master it and still print. But either way, COPYING ON A REGULAR BASIS is the answer. Good luck!!

Editorial: 10 Years & 40 Issues Later

Continued From Page 1

The Repeater Journal was designed to be YOUR magazine, about your Amateur life, and that of your neighbors. I am happy to say, as I look back, we have achieved that goal for the most part. We always could have done more, but with available funds, and limited persons who would take time to send in the news, I think we did well!

Those of you who have followed my editorship over the past 10 years will agree -- I have mellowed. I started out writing about what was wrong with Amateur radio. About half way through the period, I decided to write what was right and good about Amateur radio as we see it in the Southeast.

I feed readers would rather read a story about good things, rather than the bad things that happen, we get enough of the bad stuff in our local newspapers.

We have steered clear of controversy in repeater squabbles and clubs. We have felt all along that a problem spot in one area, doesn't deserve seven state coverage, so we have sometimes "bitten out tongue" and refrained from writing the story.

I got a letter from a friend the other day. He said he was kinda tired of hearing me "cry" for more membership in SERA. Maybe he is right! I guess we had felt perhaps we could convince a few more souls to join SERA if we brought it up "one more time". We'll try to watch it in the future.

Without trying to get too mushy -- Let me say this -- It has been a distinct privilege to serve the 4,000 hams who support SERA. I have always tried to do the very best I can to give you a magazine you want to read, and a proud to call yours.

As always, we invite your "constructive" criticism. We may not always answer your letter, but you can rest assured we will take all your comments into consideration. Some of the best ideas we have put in the Journal have come from readers suggestions. So don't ever hesitate to write and let us know how you feel.

Sometimes a format in the Journal may not be exactly as you would like to have it, but sometimes page size, numbers and space available demand certain formats for certain issues.

Again, thank you for your comments. To the hundreds who have sent stories -- thank you! To the thousands we meet at over 20 hamfests a year, it is a pleasure to know you. Who knows, unless someone else wants to take the job, we may be "stuck" in this position another 10 years, the Lord willing.

— Wayne C. Williams, K4MOB
Editor, The Repeater Journal

Roanoke Valley ARC Host LPM-87.

— by John C. Kanode, N4MM
ARRL Roanoke Division
Vice Director

In May, the Roanoke Valley Amateur Radio Club hosted the 1987 Roanoke Division League Planning Meeting at the Quality Inn in Salem, Virginia.

ARRL Section Managers, ARRL appointees, club representatives and interested amateurs from North Carolina, Virginia and South Carolina attended and participated in the meeting.

Opening day remarks were made by Mark Witt, NN4I, ARRL Assistant Director; Tom Brownlee, AF2D, President of RVARC; John Kanode, N4MM, ARRL Vice Director and Gay Milius, W4UG, ARRL Director. Following this the Section Managers and the Section Traffic Managers gave reports on the state of Amateur Radio within their sections and related activities. William Grenfell, W4GF presented the FCC update report. During the break, Charlie Wright, W4PED took the traditional group photo.

When the meeting got underway after the break, Affiliated Club Coordinators presented their reports. Following came one of the highlights of the meeting. Steve Place, WB1EYI, Manager of the Volunteer Resources Dept. at ARRL Headquarters conducted an open discussion on all aspects of clubs and training subjects. A lot of good ideas were discussed and it was a good productive session.

With the official part of the meeting over for the day, everyone enjoyed the hospitality session and the group dinner.

At 9 AM on Sunday, the meeting opened with the Section Emergency Coordinators reports, followed by a brief summary on Advisory Committee activity and QSL Bureau status. The final session, which is the highlight of the LPM was the open forum and resolution discussion meeting. This was conducted by John Kanode, N4MM and Gay Milius, W4UG. Four resolutions were presented.

The first resolution dealt with the section news column in QST. This was presented by Jimmy Walker, WD4HLZ and was approved. The next resolution which was proposed by Phil Whicker, W4ACY was to encourage the league to promote the Amateur Radio Service as a public service rather than a "Hobby" in its publications. This motion was approved. Item three which was proposed by Rae Everhart, K4SWN contained several different subjects. One was to encourage the ARRL to move expeditiously on PRB-3. Another was to put a moritorium on new MOU's and to review existing MOU's and make any necessary changes. Both were approved. Others that dealt with Novice nets on ten meters, AM for Novices, CD QSO Parties and understanding of what is obscene on Amateur Radio were not approved due to lack of interest, or the fact that action was already underway. The last motion called for a study on whether Amateur Radio should be called Ham Radio. Most thought we should leave well enough alone and if there is a problem, education of the public is in order, not a name change. The motion did not pass.

Overall it was a very productive LPM and a lot of ideas and thoughts were exchanged. Newsletters from many clubs in the division were on display at the LPM. Our thanks to the Roanoke Valley Amateur Radio Club and its members for hosting a well planned and productive LPM. If anyone has any questions about activities at the LPM or has any ideas or ways to improve the LPM, feel free to contact Gay Milius, W4UG or John Kanode, N4MM. Our addresses and phone numbers are on page eight of each QST.

The location of LPM-88 has not been determined, so if any club in the division is interested in hosting LPM-88, please contact Gay or John. See you all at LPM-88.

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Looking back

—by David Ward, KA4LVO

August 1977

The Repeater Journal

"With this issue of the CVRA [Repeater Journal], a new era has begun." This was the first line of a string of editorials to be written by Wayne Williams, K4MOB, the new editor of the Repeater Journal. "Why is this a new era? Basically because only two editors have preceeded me on this publication."

"It was in those early months [1971], Don Harris, W4BUZ of Greensboro, published the first 'Repeater Journal'. A few months later, a 2nd Journal was published by another ham. In mid 1971, Bill Parris, K4GHR, took the task of publishing the Journal. Bill in those days was the writer, typesetter, advertising manager, circulation, and bookkeeper, all essential in getting the publication before the membership."

". . .As I take over this job, I cannot help but be a little awed by what has taken place over the past six years in our 3-state area. . . . My associates and I have a job ahead. With your help in supplying information for us to publish, and your continued support of the CVRA, we can keep up and grow with Amateur Radio. Some day, this Journal, which started off as a 6-page duplicated sheet, may be the Amateur voice of the mid-Eastern section of the country. . . . Who knows where we may go . . .".

For ten years now, Wayne has been seen as the person in charge of the Repeater Journal (not necessarily the one in charge of CVRA-SERA). During that time, he has seen the 200 repeaters listed in the August 1977 issue grow to the 1000 repeaters listed in this issue. He has seen circulation go from about 1500 to its peak of 4000 a few years later. He has watched a number of officers, directors, and appointees come and go. For several years beginning in 1978, the Repeater Journal won top honors in the 1,000 and over circulation, multi-club newsletter class. Through the years, Wayne has tried many ideas to improve the Journal's appearance. Four years ago, the Journal took on a standard 8.5 x 11 size from the 8.5 x 7 non-standard (and more costly) size it had since 1973. Then last November, Wayne brought color to the cover of the Repeater Journal. Wayne has witnessed the organization grow from three districts to seven during his tenure as editor. But probably the toughest thing for him to get used to was the name change from CVRA to SERA in August of 1980. Some old habits are hard to break!

Wayne's first Repeater Journal was 44 pages long, and the picture on the front cover was of two fellow hams climbing his tower to work on his 220 mHz repeater antenna. Inside, 13 advertisers plus 27 business cards showed that Ken Holliday, WA4DYY had been busy (and successful) in getting advertising for the Journal. This book was over 40% advertisements! Repeater indexes took 3 pages, another 3 pages listed nets, a hamfest calendar, and a club meeting calendar. Stories and several pictures filled the remaining space.

The August 1977 Repeater Journal contained a variety of stories. One page covered the results of the first transmitter hunt of the Forsyth Amateur Radio Club (Winston-Salem, NC). (Since I'm affiliated with that club, I'll not expound on the winners and losers; reasons of safety, you know.) Another report of a "foxhunt" was given by the Eastern NC Repeater, Inc. club. Watson Gabriel's "Technikle Topix" was full of arithmetical formulas for antennas and explanations of them. On another issue, letters from Chuck Bino, K4CJZ and the FCC were printed dealing with a repeater milestone, the reverse autopatch. In short, the FCC's reply was "Your Autopatch system therefore appears not to be in violation of any existing regulation, assuming all applicable third party traffic requirements are met." Another story praised the efforts of the Durham FM Association and the Roaring Gap repeater owners for solving the conflicts on their 146.22/82 repeaters. (The Hillsborough repeater was recoordinated to 147.825/225. A short story appeared regarding band openings on 2-meters in July, 1977. On July 7, stations from piedmont NC and southern Virginia were working stations in Maine, Nova Scotia and New Brunswick. Then on July 12th, Carolina operators were working into the mid-west. Finally, news from the districts reported everything from field day results to new repeaters going on the air.

Another problem of the day was covered by Wayne's article on conflicting hamfest dates. Larger hamfests were coordinated with the ARRL, but what about smaller hamfests? Consequently, on July 16-17, 1977, there were hamfests in Cary, NC and Burlington, NC, just 50 miles apart! To help the smaller hamfest, it was suggested that the Repeater Journal editor become a central source for knowing the dates of hamfests. Neither CVRA nor the editor would coordinate, suggest or approve of hamfest dates, but rather serve informally in collecting and giving information. As a result, the first hamfest calendar appeared in the August 1977 Repeater Journal: five hamfests were listed.

During the past ten years, Wayne has indeed done much for the CVRA-SERA and the Repeater Journal. In this tenth anniversary issue, we salute you. Our hats are off to you!

ARRL Requests Commemorative Calls

— From ARRL Letter

The ARRL has requested the FCC to allow special commemorative call signs in celebration of the Bicentennial of the U.S. Constitution. The proposal asks that Amateurs operating in their traditional call sign districts be authorized to replace the numeral in their call sign with a two-diget numeral corresponding to the order of entry into the Union (or in case of the 13 original states, the order of ratification of the Constitution) of the State from which the operation takes place.

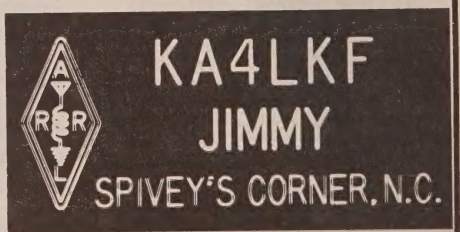
Also pre-registered Amateur Radio clubs could replace the numeral in their call with the numeral "200" for a designated one-week period corresponding closely to the date of entry of their State into the Union.

The call signs requested would be used from September 17, 1987 until December 31, 1988. An FCC response is expected shortly.

NAME BADGES Actual Size

$6.00 Postpaid
1 Day Service

DYNAMIC ENGRAVERS
RT. 5, BOX 544
DUNN, N.C. 28334



Your Choice of Colors!
● RED/WHITE ● BLACK/WHITE
● BLUE/WHITE ● WOOD GRAIN/WHT.

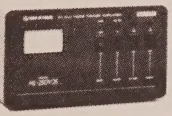
TOKYO HY-POWER AMPLIFIERS

Tokyo Hy-Power NEW! HL-37V All Mode AMP For Handi-talkies!

Only **$85.95**
Add $1.50 UPS shipping

Compact 2-meter amplifier, designed for talk power from your handheld. 1/2-watt delivers approximately 15-watts. 1 to 5 watts in, delivers a full 35-watts out. All mode, has variable sensitivity GaAsFet preamp, light bar output meter, and mobile bracket. Amp and preamp on/off switches. Today's BEST $$ value in a handheld amplifier.

NOW! 250 WATTS on 2-METERS HL-250V/25



SPECIAL!!! Only
$389.95

Need a "B-I-G" signal on 2-meters. The HL-250V will fill the bill. 25-watts in drives this magnificent brute to a sizzling 250-watts output whether SSB, CW or FM. Has built-in GaAsFet Preamp, accurate Watt meter, Lo-Hi output switch, mode switched, On/off switch for amp and preamp. The HL-250V is only for the SERIOUS 2-meter DXer. Draws approximately 41 amps at full power output. Fan cooled!

For 2-Meters - All Have Pre-Amps

HL-85V 10W-in 80W out All Mode..... $189.95
HL-110V Lo/Hi in 100W out All Mode $259.95
HL-160V Lo/Hi in 160W out All Mode $319.95
HL-160V/25A (25W in, 160+ Out) All Mode $239.95

For 440 Mhz. All Have Pre-Amps

HL-30U 2W in-30W out All Mode..... $159.95
HL-60U 12W in-60W out All Mode $189.95
HL-120U 12W in-100W out All Mode $359.95

NO CREDIT CARDS. Add $1.50 UPS shipping. N.C. residents add 5% Sales Tax. Phone CODs, add $1.90.

Many other sized Tokyo Hy-Power amplifiers from 30 to 250 watts out on 2-meters, 220 and 440 mhz. Call us and let us tailer an amplifier to suit your needs.

D-130 DISCONE ANTENNA

Only **$69.95**

The Diamond D-130 Discone is a 25 to 1300 mhz Super Discone Antenna. Transmit on 50, 144, 1200 mhz, maximum 200-watts and receive 25-1300 mhz with the one antenna. All stainless steel construction. Super for general coverage receivers, and all band transmitters. Approximately 6-feet long overall.

220 MHZ is HOT! We got Accessories!

HL-22V Handheld Amplifier Makes a "brute" out of your H/T

Only **$89.95**

Turn your tiny 1-watt into a "brute" with the HL-22V. 1 to 5 watts input delivers a full 25-watt out. FM Only. Has GaAsFet preamp, mobile bracket.

LARSEN 5/8 Mobile Antenna for 220 mhz.

Magnet, Truck Lip or Gutter clip mt. Complete antenna only $41.95
Permanent mount for only $37.95
"L" Bracket mount only $39.95

For the 220 mhz Base
AEA Isopole base antenna
Only $45.00

100 Watts on 220 Tokyo Hy-Power HL-102V

Limited Qty. at **$239.95**

Take your old 10-watt crystal 220 rig, or your new 25-watt synthesized 220 rig and give it 100-watts talk power with the HL-102V. Has GaAsFet preamp. Lo/Hi power output switched. All Mode. It just doesn't get any better than this!

For the 220 mhz handheld

5/8 Vocom collapsible 15.95
1/2-wave AEA Hotrod 16.95
Larsen Helical 1/4-wave..... 18.00

Increase the talk power efficiency of your handheld on 220 mhz with any of these portable antennas.

AEA • PACKET

PK-232 ..... $299.95
PK-64 ..... $199.95
PK-64 w/HFM $299.95
PK-87 ..... $169.95
HFM-64 HF Modem $99.95
PM-1 Univ. HF Modem $159.95

KENPRO ROTORS

All Sizes from 4 to 27 Sq. Ft. Wind Load

DUAL BAND DX-200 BASE ANTENNA

Only **$105.95**

The New Diamond DX-200 Dual Band base antenna, capable of handling 200-watts, consists of stacked 5/8s, "C" loaded for UHF & VHF. Gain: 4.5 db VHF, 7.2 db, UHF. Works great on your station dual band radio, or excellent for 2M/440 Remote Base operation. White Fiberglass, approximately 6-feet long.

The Nation's Premier KDK & Santec Dealer!

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600 LAKEDALE ROAD, DEPT. R
COLFAX, N.C. 27235

For Orders ONLY - Call Toll Free
1-800-523-0347
NC Call (919) 993-5881
NOON to 10:00 PM EST

1986 ARRL VIRGINIA BEACH, VA. VIRGINIA STATE AMATEUR RADIO CONVENTION/COMPUTER FAIR

Tidewater Radio Conventions, Inc.

OCTOBER 3 & 4

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THE FINEST INDOOR, AIR CONDITIONED FACILITY ON THE EAST COAST

BRING THE FAMILY TO VACATION AT BEAUTIFUL VIRGINIA BEACH, VA.

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1-800-425-6920 VIRGINIA

K O A 1240 GENERAL BOOTH BLVD., VIRGINIA BEACH
(804) 428-1444

HILTON INN 8TH AND OCEANFRONT 1-800-445-8667

HOLIDAY TRAV-L-PARK 1075 GENERAL BOOTH BLVD.
VIRGINIA BEACH (804) 425-0249

AMATEUR LICENSE EXAMINATIONS

SUNDAY, OCTOBER 4 WALKINS ONLY

(REMEMBER TO BRING YOUR LICENSE)

- MAJOR COMMERCIAL EXHIBITORS
- ARRL FORUMS
- DX FORUMS
- LADIES AND CHILDREN'S PROGRAMS
- EXCELLENT FOOD SERVICE
- INDOOR FLEA MARKET TABLES
- PLENTY OF FREE PARKING

ENCLOSE SELF-ADDRESSED, STAMPED ENVELOPE FOR REGISTRATION RETURN

NAME _____ TELEPHONE _____

BUSINESS NAME _____ CALLSIGN _____

ADDRESS _____ STATE _____ ZIP _____

NUMBER

PLEASE SUBMIT PRIOR TO SEPTEMBER 25

_____ ADVANCE TICKETS - $5.00 GOOD FOR BOTH DAYS ($6.00 AT DOOR) ..... $_____

_____ FLEA MARKET TABLES $8.00 PER DAY ..... $_____

_____ ELECTRICAL OUTLET IN FLEA MARKET $15.00 ..... $_____

_____ COMMERCIAL BOOTHS - $50.00 EACH FOR BOTH DAYS ..... $_____

SPECIAL PRE-REGISTRATION PRIZE TOTAL $_____

FOR INFORMATION CALL OR WRITE:

TIDEWATER RADIO CONVENTIONS, INC.
3512 OLYMPIA LANE
VIRGINIA BEACH, VA. 23452
PHONE (804) 340-6105

For a free Virginia Beach Accommodations Directory, mail this coupon today to: Virginia Beach Visitor's Bureau, P.O. Box 200, Dept. MTB, Virginia Beach, Virginia 23458.

Name _____

Address _____

City _____ State _____ Zip _____

Department of Economic Development
Tourist Development Division

City of Virginia Beach

TRI-CITIES HAMFEST
Gray, Tennessee
Appalachian Fair Grounds
Saturday, October 17, 1987

FCC License Exams

9:00 A.M. - For those who register before September 17, 1987.
You will need a check for $4.35 payable to ARRL-VEC
and a copy of your license along with a completed 610.
Mail to N4IR, 714 Foothill Rd., Kingsport, TN 37663.
Bring original license & two I.D's to exam.

1:00 P.M. - Walk-ins and Novices only.

PRIZES

1st Prize - Yaesu FT 767 GX
2nd Prize - Yaesu FT2700RH
3rd Prize - Astron RS35M
4th Prize - Cushcraft A147 Beam
CW Contest Prize - Bencher Paddles

Special prize to the oldest & youngest Ham in attendance.(Age)

ARRL Sanctioned

"The Fastest Growing Hamfest In The Southeast"

RV hookups, Friday night setup available 6:00 PM-11:00 PM, indoor or outdoor flea market. Drive in for unloading and setup.
Convenient motels with special rates.

Pre-registration prize Icom IC-28A with TTP

PRE-REGISTRATION FORM
Mail to Tri-Cities Hamfest
P.O. Box 3682 CRS
Johnson City, TN 37601

(Qty.)		(Totals)
_____	Hamfest Admission $4.00	_____
_____	Additional prize Tickets $1.00 each, 6/$5.00 & 15/$10.00	_____
_____	Exhibit Hall Flea Market Tickets @ $5.00 plus admission.	_____
_____	Outside Flea Market $2.00 plus admission	_____
_____	Covered Barn Flea Market @ $3.00 plus admission.	_____
_____	Dealer Tickets @ $20.00. SEND SASE	_____
	(All tables $4.00 each - limited number available)	

NAME _____ CALL LETTERS _____
ADDRESS _____ PHONE _____
CITY _____ STATE _____ ZIP _____

TALK-IN 146.37/97 & 146.01/61

Away From The Pole Position

— by Wayne C. Williams, K4MOB

I must say, it was my first real chance to try it out and see just how things would be. Not everyone gets a chance at the pole position at the famous Atlanta International "Interway".

I had my Ford tuned up, and was raring to go. I felt like I could certainly take on those Georgia boys and give them a run for the money, after all, racing was born in North Carolina.

We came down the straightaway, I could see tham all lining up, shiny new Chevrolets, Fords, Pontiacs, Buicks, 300ZXs. . . . and many other models. We were keeping our position, six lanes across as we came under the "spaghetti overpass", then things cut loose.

I kicked my Ford to the floor, and moved over to one of the inside lanes. I looked in my mirror, and now I know what Bill Elliott and Davie Allison feel like. Behind me they were swapping lanes left and right, jockying for position, making a play for a pass.

Speeds picked up as we rounded a slight turn with a four-ramp exit. . . I was still holding my own, but beads of sweat began to break out on my forehead. Gerry, my wife, sitting "shotgun" looked over and understood. She knew we had taken on a big job -- a job that perhaps she knew we didn't have the horsepower and intestinal fortitude to keep up with the other cars out there.

Sure enough, about a half mile further, those behind made their play, shotgunning around my left and right sides, and moving over to the inside, pulling away.

I frantically tried to move up with them, but I just couldn't seem to keep up. They were leaving me behind.

A look in the rear view mirror -- showed more cars coming up getting ready for the "kill". Sure enough moments later they zoomed by leaving with them a wake of wind and howling motors and mufflers.

At first I felt embarassed, but then, I understood, I was no match for those Georgia drivers who were so familiar with the raceway. Their experience was leaving me in a cloud of dust.

A few more miles and I knew it would be over. Now my goal was to just make it to the finish line. I slowed to a good speed, and moved over to the inside lane next to the apron, leaving plenty of room for the faster cars to go by. I knew I was a rookie, and had done as well as could be expected with my first attempt at Atlanta.

Finally, we saw the sign, we knew just a few more ramps to go and we would be "home free" -- we at least would finish, and we did!

As we turned onto the ramp and reduced speed, I felt a sense of accomplishment. We had been outrun, outsmarted, and outclassed, but what the heck, we finished and got to the destination without any problems.

Finally we skidded to a stop at the World Congress Center. I looked at my watch -- 5 p.m. - in on time!

We had run and survived the Friday rush hour race on Interstate 85 at Atlanta. Now we could relax and enjoy the ARRL National Convention at Atlanta.

First 220 Sporadic-E QSO

The first confirmed 220-mhz Sporadic-E contact occurred during the June VHF QSO party on June 14. The contact, which took place on 220.100 mhz was made between W5HUQ/4 near Jacksonville, FL and K5UGM in Irving, TX.

Signal strengths during the contact were 5-9. W5HUQ also heard WB5LUA, but no two-way contact occurred.

Full Membership Continues Steady Growth for 1987

SERA Full Membership passed the 300 mark in application during the past quarter, for a total of 47% of the entire area. One thing that held down the percentage was a tremendous growth in 220 and 440 repeaters for the past quarter.

Even though we added quite a few new members, our coordinators added 45 new repeaters to the listings, making the seven SERA states now have 1,062 repeaters on all bands, not counting Packet digipeters.

Another interesting thing happened. For the first time in history, North Carolina tumbled from the status of being the largest State as far as repeaters were concerned to number three. Heavy coordination in Georgia and Tennessee, moved them to the two top spots. Tennessee now is the largest in numbers of repeaters with 223, followed by Georgia with 221, and North Carolina with 217.

The biggest growth was in 220. A total of 22 new 220 mhz machines were coordinated during the last quarter.

As far as membership is concerned, SERA has 503 Full Member repeaters, or 47% of the 1,062 in the territory. As indicated by the chart below, four of the seven states have achieved the 50% mark in Full Membership, North Carolina, South Carolina, West Virginia and Eastern Kentucky. Virginia is close with 49%. Georgia has 43% and Tennessee 34%.

Reading the chart below, the final/year columns represent the total numbers of Full Member repeaters at the close of past years. The "Curr 1987" shows current full member repeaters this year. The next column is the 1987 percentage of all repeaters in each state, which is listed in the next column, "State Rptr." The last column represents how many applications have come in for each state.

Repeaters who are marked with an "N" in our Index are not supporting Full Member repeaters. Any owners wishing to join SERA for the remainder of 1987 may doso by submitting $4.00 no later than October 15th, 1987 for the remainder of the year. Their memberships will of course, expire like all others on December 31st. Applications have been published in the last 3 or 4 Journals.

Any Non-member wishing to join for the remainder of 1987, and all of 1988 may submit $19.00 and not have to renew on December 31. ($15.00 for 1988, $4.00 for remainder of 1987). Applications received prior to October 15th will be listed in the November Journal, which is the last 1987 magazine to be published.

CVRA-SERA FULL MEMBERSHIP FROM 1983 TO DATE. CORRECT AS OF 7-17-87 THRU '87 APPL. # 312

	REPEATER							
STATE	FINAL 1983	FINAL 1984	FINAL 1985	FINAL 1986	CURR. 1987	1987 %-TTL	STATE RPTR	1987 APPL#
N.C.	100	83	149	147	122	56%	217	84
S.C.	24	35	56	43	42	51%	82	31
VA.*	58	60	92	88	94	49%	192	52
W.VA.	28	21	41	40	50	53%	94	27
TENN.	47	58	85	63	76	34%	223	41
GA.**	9	18	109	125	95	43%	221	55
E.KY***	1	4	18	21	17	52%	33	16
ALA.****	1	1	4	67	7	--	--	5
FLA.****	--	--	--	4	--	--	--	0
TOTALS	268	280	554	598	503	47%	1062	311.00

* TTL.VA.RPTRS.ALSO INCLUDE N.VA. - T-MARC TERRITORY)
**GA.ASSUMED DISTRICT STATUS IN 3rd QTR.OF 1985.
***K.KY.ASSUMED DISTRICT STATUS IN MID 1985.
****ALA.& FLA. NOT SERA DISTRICTS.
1987 % OF SERA FULL MBR DOES NOT INCL. ALA & FLA. --ONLY OUR 7 DISTRICTS

Coming Events

SERA REPEATER JOURNAL CALENDAR OF EVENTS

AUGUST 1987

1-2.....Hamfest, ASHEVILLE, NC
2.....Winchester Hamfest, BERRYVILLE, VA
7-9.....Ham Com, SHREVEPORT, LA
8.....Jax County Hamfest, RIPLEY, WV
15-16.....Hamfest, HUNTSVILLE, AL
16.....New River Valley Hamfest, DUBLIN, VA
22-23.....Hamfest, MADISON, GA
23.....SERA Board Meeting, GREENSBORO, NC
29-30.....Hamfest, MELBOURNE, FL
30.....Hamfest, CEDARS OF LEBANON, TN

SEPTEMBER 1987

5-6.....Hamfest, SHELBY, NC
13.....Hamfest, GAITHERSBURG, MD
20.....Cincy.Hamfest, CINCINNATI, OH
20.....Hamfest, AUGUSTA, GA
20.....Hamfest, CLEVELAND, OH
27.....Hamfest, Lanierland ARC, GAINSVILLE, GA

OCTOBER 1987

3.....Hamfest, HUNTINGTON, WV
3-4.....VA State ARRL Conv., VIRGINIA BEACH, VA
4.....Hamfest, ROCK HILL, SC
4.....Hamfest, ROME, GA
9-11.....Convention. HOUSTON, TX
10-11.....Central GA Hamfest, WARNER ROBBINS, GA
10-11.....Hamfest, MEMPHIS, TN
11.....Hamfest, MAYSVILLE, NC
17.....Tri-Cities Hamfest, GRAY, TN
24-25.....Hamfest, CHATTANOOGA, TN
31-NOV 1.Ham Radio/Comp Expo 87 LAWRENCEVILLE, GA

NOVEMBER 1987

1.....Hamfest, CONCORD, NC
6-7*.....Hamfest, LAS VEGAS, NV
14-15.....Central Alabama Hamfest, MONTGOMERY, AL
21-22.....Hamfest, GREENSBORO, NC
21-22.....Hamfest, W. PALM BEACH, FL

PLEASE NOTE: Hamfests listed based on last year's dates and marked with an asterisk are NOT CONFIRMED. Other shows with No Asterisk have been confirmed. DEADLINE for Calendar Corrections to the Upcoming November Journal is October 1st. Write the Editor.

1988 Calendar of Events To Be Published Next Issue

As in past years, the November Repeater Journal will publish the entire new year's Hamfest calendar. We will base the proposed dates of each show, based on their 1987 date.

Hamfest Chairman, or clubs who have already set their 1988 show dates, are urged to get yur correct 1988 date to the Journal prior to October 15th. This will allow your show to reflect the confirmed accurate date every issue until the show is held.

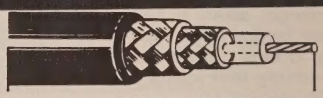
All shows with unconfirmed dates, and based on the 1987 date, will be marked with an Asterisk.

Hamfest advertising for shows in January, February and March should be considered for the November 1987 issue. The first 1988 Journal will be published in early February.

WHERE TO BUY DIRECTORY

Advanced Computer Controls (ACC) (CA) 6
Augusta Hamfest (GA) 34
Business Card/Club-Net Service Page 40
Certified Communications (SC) 52
Chattanooga Hamfest (TN) 14
Computer Trader Magazine (CTM) (AL) 30
CQ Magazine (NY) 43
Dynamic Engravers (NC) 46
Electronics Equipment Bank (EEB) (VA) 32
ENCOMM, INC. (TX) ..... Ins. Ft. Cover
F & M Electronics (NC) 12
Greensboro Hamfest (NC) 45
H.L. Heaster, Inc. (WV) 36
MarVista Motel (SC) 44
Mercury Engraving (TN) 18
Repeater Journal Advertising Rates 39
Shelby Hamfest (NC) 4-5
Tri-Cities Hamfest (TN) 50
Virginia Beach Hamfest, ARRL Va. State Conv. (VA) 48-49
West Antenna Service (NC) 38
Williams Radio Sales (NC) 8, 41, 47
YAESU USA (CA) ..... Ins. Bk. Cover

DEADLINE for NOVEMBER Journal advertising September 20th for confirmation of ad, October 1 Camera Ready Copy. Send advertising copy to Advertising Manager.



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Decisions, decisions, decisions.

Should you choose one, two, or all three?

Choose one—Yaesu's FT-109RH, FT-209RH or FT-709R—and you gain the maximum performance available in any single-band HT.

Choose two—or even three, and you also get interchangeable accessories, options and operating procedures. Making it easy and affordable to work all your favorite VHF and UHF bands.

However you decide, you get all this operating flexibility: Powerful 5-watts output (4.5 watts on 440 MHz). Battery saver. Push-button recall of 10 memories, each that independently stores receive frequency, standard or non-standard offset, even optional tone encode and decode.

Push-button scanning routines for scanning all memory channels, selected ones, or all frequencies between adjacent memories. And a priority feature to return you to a special frequency.

You also get a high/low power switch, power meter, backlit display, 500-mAh battery, wall charger, and soft case. Plus a choice of many interchangeable options, including a VOX headset, fast charger, hard leather case, and plug-in subaudible tone encoder/decoder for controlled-access repeaters.

Let Yaesu's 220-MHz FT-109RH, 2-Meter FT-209RH and 440-MHz FT-709R give you the decided advantage in HT performance and upgrade ability. It may be the most enjoyable HT buying decision you ever make.

220 MHz

2 Meters

440 MHz

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Yaesu USA 17210 Edwards Road, Cerritos, CA 90701 (213) 404-2700. **Repair Service:** (213) 404-4884. **Parts:** (213) 404-4847.
Yaesu Cincinnati Service Center 9070 Gold Park Drive, Hamilton, OH 45011. (513) 874-3100.

Prices and specifications subject to change without notice.

CVRA-SouthEastern Repeater Association, Inc.

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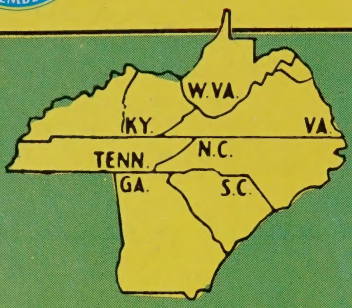

"On Our 16th Year
Of Service
To The VHF/UHF
Amateur"

STATE DIRECTORS, VICE DIRECTORS AND ASSISTANTS FOR CVRA-SOUTHEASTERN REPEATER ASSOCIATION

Contact Your Local Director or His Assistants for help in Frequency or Repeater Coordination, Changes in Repeaters, or any other Assistance you need.

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J. Tom Park, WD4KWP
1198 Lock 4 Road
Gallatin, Tn. 37066
(615) 452-3822

VICE-DIRECTOR

Jean Giesler, W4TYU
4544 Lyons View Drive
Knoxville, Tn. 37919
(615) 525-5781

WESTERN ASST.

Neal Talley, WB4EAI
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Memphis, Tn. 38111
(901) 454-6910

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DIRECTOR

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(804) 486-1555

VICE-DIRECTOR

Don Williams, Jr. WA4K
412 Ridgeway Drive
Bluefield, Va. 24605
(703) 326-2411

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DIRECTOR

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St. Albans, W.Va. 25177
(304) 727-8453

VICE-DIRECTOR

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P.O. Box 351
Pratt, W.Va. 25162
(304) 442-5373

NORTHERN ASST.

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Route #3, Box 52
Clarksburg, W.Va. 26301
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SOUTHERN ASST.

M.E. (Mac) McMillian, WD8OZT
2537 Larwood Drive
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DIRECTOR

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Perry, Ga. 31069
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NORTH GA. ASST.

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VICE-DIRECTOR

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VICE-DIRECTOR

Orin Harding, WA4TBR
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DIRECTOR

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